Sarasota Bay
Ambient Monitoring Program:
January - March 2014
Sampling

Mote Technical Report 1781

By Ari Nissanka
Submitted to Sarasota County Water Resources
February 14, 2014

Ms. Kathryn L. Meaux
Sarasota County Water Resources
1001 Sarasota Center Blvd.
Sarasota, FL. 34240

Dear Ms. Meaux,

Enclosed are the data tables, field and custody records from the January 2014 sampling of Sarasota Bay that Mote Marine Laboratory (MML) performed for Sarasota County. The magnetic data are enclosed as an Excel 11.8 file (SBMN0114.XLS). In January MML also participated and analyzed a sample for Regional Ambient Monitoring Program (RAMP) and the custody sheet and the data report (Excel 11.8 file: RAMP0114.XLS) are also included in this report. Data are organized as eleven tables with descriptions which follow.

- Transmittal letter and cover page: 1 page
- Mid-Day \textit{in situ} profiles: 4 pages
- Station locations and water clarity: 2 pages
- Water quality analyses: 6 pages
- Weather conditions during samplings: 1 page
- Custody sheets for water quality samples: 3 pages
- Field Work Logs for Segments US, 10 and 11: 9 pages
- Field Work Logs for Segments 13, 14 and 16: 9 pages
- Field Work Logs for segments DR and LB: 6 pages
- Data Report – RAMP: 3 pages
- Custody sheet for RAMP sampling: 1 page

Total (including this letter): 45 pages

All portions of these water quality analyses were satisfactory.

All the test results for water quality analysis in this report meet the NELAC standards with the exception of \textit{Karenia brevis} cell counts, and field measurements which are not included under certifiable analytes under Non-Potable Water (NPW) – NELAC, but are analyzed under MML’s approved Quality Plan.

These data will be transmitted with in 10 days from this report to Mr. Dan Dye for incorporation into the Sarasota County Water Atlas.

Please don’t hesitate to call if I may answer any further questions regarding this report.

Sincerely,

\[\text{signature}\]

Ari Nissanka D. Sc.
Staff Scientist

A NONPROFIT ORGANIZATION DEDICATED TO ADVANCING THE SCIENCE OF THE SEA AND A MEMBER OF:

- Association of Zoos & Aquariums
- Association of Marine Laboratories of the Caribbean
- Economic Development Council of Sarasota County
- Florida Institute of Oceanography
- Florida Ocean Alliance
- Florida Sea Grant
- Greater Sarasota Chamber of Commerce
- Gulf of Mexico Coastal Ocean Observing System
- International Association of Aquatic & Marine Science Libraries & Information Centers
- International Consortium for Marine Conservation
- National Association of Marine Laboratories
- Science & Environment Council of Sarasota County
- Sarasota Arts & Cultural Alliance
- Southeast Coastal Ocean Observing Regional Association
- Southern Association of Marine Laboratories
## Sarasota Bay Status and Trends Monitoring
### Mid-Day In Situ Profiles

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## Sarasota Bay Status and Trends Monitoring

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Mid-Day *In Situ* Profiles

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Sarasota Bay Status and Trends Monitoring
Station Locations and Water Clarity

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**Sarasota Bay Status and Trends Monitoring**

**Water Quality Analyses - Summary Report**

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**Note:**
- \(\text{NO}_2^-\text{N}\) and \(\text{NH}_4^-\text{N}\) are measured in mg/l of NO\(_2\)-N and NH\(_4\)-N, respectively.
- \(\text{TKN}\) is measured in mg/l of TKN.
- U = Less than Method Detection Limit (MDL)
- I = Value is greater than or equal to MDL but less than the Practical Quantitation Limit (PQL)
## Sarasota Bay Status and Trends Monitoring
### Water Quality Analyses - Summary Report

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## Sarasota Bay Status and Trends Monitoring
### Water Quality Analyses - Summary Report

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#### Water Quality Analyses - Summary Report

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U = Less than Method Detection Limit (MDL)
I = Value is greater than or equal to MDL but less than the Practical Quantitation Limit (PQL)
## Sarasota Bay Status and Trends Monitoring

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U = Less than Method Detection Limit (MDL)
I = Value is greater than or equal to MDL but less than the Practical Quantitation Limit (PQL)
## Sarasota Bay Status and Trends Monitoring
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### Custody Sheet

**Mote Marine Laboratory**

**Sampling Date:** 01.14.14

**Kit #:** 141-0001

**Log Book Pg #:**

**Batch #:** 2014020

**Mode of Sampling:** Niskin - SN:

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**ANALYSES**

- A - NH₃, N, NO₃, N, TKN, TOTP
- B - PO₄, P
- D - BOD₅, Color-A, Turb
- R - Cell Counts (K. brevis)
- H - Chl-a (Fluoro)

**Matrix:** Est/Marine, Surface Water

**RELIQUISHED BY:**

**RECEIVED BY:**

**DATE/TIME:** 01.14.14 1430

**COUNT VERIFIED:**

---

**Ice Present:**

**Temperature Blank:** 4.0 °C

**Containers verified 100%**
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<tr>
<th>STATION DESIGNATION</th>
<th>TIME (EST)</th>
<th>SAMPLE DEPTH</th>
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<th>R - 14</th>
<th>B - 14</th>
<th>D - 14</th>
<th>A - 14</th>
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ANALYSES
A: NH4, NO3, N, TKN, TOTP
B: PO4, P
D: BOD5, Color-A, Turb
R: Cell Counts (K. brevis)
H: Chl-a (Fluoro)
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<th>SAMPLE DEPTH</th>
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<th>R - 14</th>
<th>B - 14</th>
<th>D - 14</th>
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ANALYSES

A - NH₄-N, NO₂-N, TKN, TOC
B - PO₄-P
D - BOD₅, Color - A, Turb
R - Cell Counts (K. brevis)
H - Chl-a (Fluoro)

Matrix: Est Marine, Surface Water

CONTAINER COUNT, THIS PAGE ONLY

RELIQUISHED BY: (SAMPLER'S SIGNATURE)

RECEIVED BY: (TRANSPORTER'S SIGNATURE)

DATE/TIME:
1/14/14
15:25

COUNT VERIFIED:

RELIQUISHED BY:

RECEIVED BY:

DATE/TIME:
01/14/14
15:25

COUNT VERIFIED:

Ice Present: 
Temperature Blank: 15 °C

Containers verified 100%
FIELD WORK LOG: Sarasota Bay Monitoring

Date: 01.14.14
Samplers Name (Initials): Lon, Sarah, Justin, Shaping, Serena, Selin, Ali

<table>
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<tr>
<th>Segments</th>
<th>US</th>
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<th>11</th>
<th>13</th>
<th>14</th>
<th>16</th>
<th>DR</th>
<th>LB</th>
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Equipment Information

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<tr>
<th>Instrument</th>
<th>Model #</th>
<th>Serial #</th>
<th>Licor Analyst</th>
<th>Cal time (EST)</th>
<th>Water Multi</th>
<th>Cal Readings</th>
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<td>Lon</td>
<td>Justin</td>
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General Field Conditions

Boat
Rainy - 100% Clouds

Analyst: Lon, Sarah, Justin, Shaping, Serena, Selin, Ali

<table>
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<tr>
<th>0.5 KCl</th>
<th>0.1 KCl</th>
<th>pH 7.00</th>
<th>pH 10.00</th>
<th>% Sat DO</th>
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<td>Limits</td>
<td>55.708-61.572 ms/cm*</td>
<td>12.255-13.545 ms/cm*</td>
<td>6.8-7.2 SU</td>
<td>9.8-10.2 SU</td>
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*: If Conductivity is off, repeat -DO NOT calibrate.
♦: If pH / % Saturation of DO is off, calibrate.

RECORD ANY CHANGES TO BACK UP INSTRUMENTS IN LOG COMMENTS!
RECORD STATION TIMES FROM HYDROLAB AT FIRST READING!

**FIELD CONDITIONS**

| CLOUD PERCENT | 100 |
| WIND DIR (from DegM) | 5 |
| WIND VELOCITY (MPH) | 0 5 10 15 20 |
| WAVE HEIGHT (FT) | 0 0.5 1 2 3 |
| RELATIVE TIDAL STAGE | Fld Ebb Silk-H Silk-L NV |
| WATER DEPTH (FT) | 10.7 |
| D.O. AIR CAL (% SAT) | 99.7 @ 20.38 °C |

**HYDROLAB MEASMT (6.5')**

| SALINITY (PSL) | 33.78 33.74 33.81 |
| TEMP (°C) | 17.25 17.35 17.41 |
| pH (SU) | 7.97 7.99 8.00 |
| SPEC COND (MS/CM) | 51.26 51.25 51.45 |
| DO (MG/L) | 7.52 7.57 7.61 |
| % SAT DO | 98.5 98.2 98.3 |

**WQ SAMPLE CONTN (A.B.D.H)**

| DEPTH: IM / MID | METHOD: NISKIN |
| UPPER @ >0.2M | LOWER | 92.4B |

**SECCHI DEPTH (M)**

| Dn : Up: MEAN |
| UPPER | 130.1 |
| LOWER | 184.6 |

**IN SITU LIGHT MEASMT (STORE 3) (µE/M²/SEC)**

| BEACH / BOAT BASIN / COMMERCIAL / DOCKS / ISLAND / MARINA / MANGROVE / OPEN BAY / SEA WALL / RESIDENTIAL (LOW / MEDIUM / DENSE) / RIP RAP / VEGETATION / |
| BEACH / BOAT BASIN / COMMERCIAL / DOCKS / ISLAND / MARINA / MANGROVE / OPEN BAY / SEA WALL / RESIDENTIAL (LOW / MEDIUM / DENSE) / RIP RAP / VEGETATION / |

**DESCRIPTION OF STATION LOCATION**

| MUD SAND GRASS NV |

**COMMENTS:**

- Depth from bond current too strong

---

Location: Dr. Lazenby's

Date: June 7, 2010

Project #: 112-307

**MOTE MARINE LABORATORY**, 1600 Ken Thompson Parkway, Sarasota, FL 34236 (941) 388-4441
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<th>LON</th>
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<td>0 5 10 15 20</td>
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<td>WAVE HEIGHT (FT)</td>
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<td>RELATIVE TIDAL STAGE</td>
<td>Fld Ebb Silk-H Silk-L</td>
<td>Fld Ebb Silk-H Silk-L</td>
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<td>D.O. AIR CAL (% SAT)</td>
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<table>
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<th>1M</th>
<th>M/M</th>
<th>B-0.2M</th>
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<th>1M</th>
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<th>M/M</th>
<th>B-0.2M</th>
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<th>1M</th>
<th>M/M</th>
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<tr>
<td>IN SITU LIGHT MEASMT (STORE 3) (mE/m²/SEC)</td>
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<td>LOWER</td>
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| BOTTOM TYPE | MUD SAND GRASS NV | MUD SAND GRASS NV |

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<th>STA:</th>
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<td>CLOUD PERCENT</td>
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<tr>
<td>WIND DIR (from DegM)</td>
</tr>
<tr>
<td>WIND VELOCITY (MPH)</td>
</tr>
<tr>
<td>WAVE HEIGHT (FT)</td>
</tr>
<tr>
<td>RELATIVE TIDAL STAGE (Fld, Ebb, Sik-H, Sik-L (NV))</td>
</tr>
<tr>
<td>WATER DEPTH (FT)</td>
</tr>
<tr>
<td>D.O. AIR CAL (% SAT)</td>
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<table>
<thead>
<tr>
<th>HYDROLAB MEASMT (6.5°)</th>
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<tr>
<td>SALINITY (psu)</td>
</tr>
<tr>
<td>TEMP (°C)</td>
</tr>
<tr>
<td>PH (su)</td>
</tr>
<tr>
<td>SPEC COND (ms/cm)</td>
</tr>
<tr>
<td>DO (mg/l)</td>
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<td>% SAT DO</td>
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<tr>
<th>WQ SAMPLE CONTN (A,B,D,H)</th>
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<tr>
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<th>IN SITU LIGHT MEASMT (STORE 3) (L/E/M/PSR)</th>
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<tr>
<td>UPPER @ ≥0.2M 329.1 05</td>
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<td>LOWER 240.8</td>
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<table>
<thead>
<tr>
<th>BOTTOM TYPE</th>
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<tr>
<td>MUD / SAND / GRASS / NV</td>
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<table>
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<th>DESCRIPTION OF STATION LOCATION</th>
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### MOTE MARINE LABORATORY, 1600 Ken Thompson Parkway, Sarasota, FL 34236 (941) 388-4441

**Physical/Chemical Characterization Field Sheet - SB Monitoring**

**Date:** __01.14.14__

**Samplers (Initials):** __D.J.J.S.S.__, __L.M.E.M.__, __A.A.A.__, __S.S.S.__

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<th>LON</th>
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<td>14</td>
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### FIELD CONDITIONS

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<tr>
<th>CLOUD PERCENT</th>
<th>WIND DIR (from DegM)</th>
<th>WIND VELOCITY (MPH)</th>
<th>WAVE HEIGHT (FT)</th>
<th>RELATIVE TIDAL STAGE</th>
<th>WATER DEPTH (FT)</th>
<th>D.O. AIR CAL (% SAT)</th>
<th>HYDROLAB MEASMT (6.5')</th>
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</thead>
<tbody>
<tr>
<td>5%</td>
<td>6</td>
<td>0, 5, 10, 15, 20</td>
<td>0, 0.5, 1, 2, 3</td>
<td>Fld Ebb Sik-H Sik-L NV</td>
<td>9.3</td>
<td>96.9</td>
<td>@ 18.90 °C</td>
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<table>
<thead>
<tr>
<th>HYDROLAB MEASMT (6.5')</th>
<th>SALT (PSU)</th>
<th>TEMP (°C)</th>
<th>pH 7.0</th>
<th>SPEC_COND (ms/cm)</th>
<th>DO (mg/l)</th>
<th>% SAT DO</th>
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<tbody>
<tr>
<td>0.2M</td>
<td>33.18</td>
<td>18.90</td>
<td>8.07</td>
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<td>92.2</td>
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<td>B-0.2M</td>
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### WQ SAMPLE CONTN (A,B,D,H)

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<th>IN SITU LIGHT MEASMT (STORE 3) (μE/M²/Sec)</th>
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<tbody>
<tr>
<td>5</td>
<td>UPPER @ &gt; 0.2M</td>
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<table>
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<td>BEACH / BOAT BASIN / COMMERCIAL / DOCKS / ISLAND / MARINA / MANGROVE / OPEN BAY / SEA WALL / RESIDENTIAL (LOW / MEDIUM / DENSE) / RIP RAP / VEGETATION</td>
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<td>MUD SAND GRASS (NV)</td>
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<table>
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<td>W. 69 Kicking Mans</td>
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| NW 69 Van Wesel |

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<td>WIND DIR (from DegM)</td>
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<td>15</td>
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<td>WAVE HEIGHT (FT)</td>
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<td>NV</td>
<td>Fld Ebb Sil-H Sil-L</td>
<td>NV</td>
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<td>WATER DEPTH (FT)</td>
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<tr>
<td>D.O. AIR CAL (% SAT)</td>
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<td>@ 18.88°C</td>
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<td>@ 19.69°C</td>
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<th>0.2M</th>
<th>1M</th>
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<td>TEMP (°C)</td>
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<td>7.02</td>
<td>7.01</td>
<td>7.01</td>
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<td>% SAT DO</td>
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<td>98.1</td>
<td>98.2</td>
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<td>MID</td>
<td>METHOD: NISKIN</td>
<td>Custody Y</td>
<td>N</td>
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<td>Up :</td>
<td>Mean</td>
<td>Dn :</td>
<td>Up :</td>
<td>Mean</td>
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<tr>
<td>In Situ Light Measmt (Store 3) (μE/m²/sec)</td>
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<td>Upper @ &gt;0.2m</td>
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<tr>
<td>Shoreline Description</td>
<td>Beach / Boat Basin / Commercial / Docks / Island / Marina / Mangrove / Open Bay / Sea Wall / Residential (Low / Medium / Dense) / Rip Rap / Vegetation</td>
<td>Beach / Boat Basin / Commercial / Docks / Island / Marina / Mangrove / Open Bay / Sea Wall / Residential (Low / Medium / Dense) / Rip Rap / Vegetation</td>
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<td>Bottom Type</td>
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<td>Mud Sand Grass NV</td>
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<tr>
<td>Description of Station Location</td>
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<td>W of Van Weel</td>
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<tr>
<td>Comments</td>
<td></td>
<td>@ wrong point</td>
<td>for hydro</td>
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**FIELD CONDITIONS**

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<td>WIND VELOCITY (MPH)</td>
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<td>5</td>
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<td>WAVE HEIGHT (FT)</td>
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<tr>
<td>RELATIVE TIDAL STAGE</td>
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<td>15</td>
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<td>WATER DEPTH (FT)</td>
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<thead>
<tr>
<th>D.O. AIR CAL (% SAT)</th>
<th>0.2M</th>
<th>1M/MID</th>
<th>B-0.2M</th>
<th>0.2M</th>
<th>1M/MID</th>
<th>B-0.2M</th>
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<tbody>
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<td>HYDROLAB MEASMT (6.5')</td>
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<td>SALINITY (PSU)</td>
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<td>18.51</td>
<td>18.62</td>
<td>18.94</td>
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<td>TEMP (°C)</td>
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<td>6.07</td>
<td>6.07</td>
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<td>DO (mg/l)</td>
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<td>95.0</td>
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**WQ SAMPLE CONTN (A,B,D,H)**

<table>
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<tbody>
<tr>
<td>#</td>
<td>Custody Y/N</td>
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<td>Up:</td>
<td>Mean</td>
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**SECCHI DEPTH (M)**

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<th>Mean</th>
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<td>190</td>
<td>190</td>
<td>Mean</td>
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**IN SITU LIGHT MEASMT (STORE 3) (µE/M²/Sec)**

<table>
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<th>LOWER</th>
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<tr>
<td>237.9</td>
<td>159</td>
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**SHORELINE DESCRIPTION**

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**BOTTOM TYPE**

<table>
<thead>
<tr>
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<th>Sand</th>
<th>Grass</th>
<th>NV</th>
<th>Mud</th>
<th>Sand</th>
<th>Grass</th>
<th>NV</th>
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**DESCRIPTION OF STATION LOCATION**

In DT area

In Sailboats by Marina Jack

May have stones 2-0.2M read

Date: June 7, 2010
### Field Conditions

<table>
<thead>
<tr>
<th>Field Conditions</th>
<th>Unit</th>
<th>Value</th>
<th>Unit</th>
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<tbody>
<tr>
<td>Cloud Percent</td>
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<td>Wind Dir (from DekM)</td>
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<tr>
<td>Wind Velocity (MPH)</td>
<td></td>
<td>0 10 15 20</td>
<td></td>
</tr>
<tr>
<td>Wave Height (FT)</td>
<td></td>
<td>0.5 1 2 3</td>
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</tr>
<tr>
<td>Relative Tidal Stage</td>
<td></td>
<td>Fld Ebb Slk-H Slk-L</td>
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<tr>
<td>Water Depth (FT)</td>
<td></td>
<td>15.7</td>
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<tr>
<td>D.O. Air Cal (% Sat)</td>
<td></td>
<td>96.2 @ 19.09°C</td>
<td></td>
</tr>
<tr>
<td>Hydrolab Measmt (6.5')</td>
<td></td>
<td>0.2M 1M/MID B-0.2M</td>
<td></td>
</tr>
<tr>
<td>Salinity (PSU)</td>
<td></td>
<td>32.90 33.11 33.18</td>
<td></td>
</tr>
<tr>
<td>Temp (C)</td>
<td></td>
<td>19.2 18.84 18.81</td>
<td></td>
</tr>
<tr>
<td>pH (SU)</td>
<td></td>
<td>8.90 8.00 8.01</td>
<td></td>
</tr>
<tr>
<td>Spec Cond (mg/cm)</td>
<td></td>
<td>50.01 50.42 50.51</td>
<td></td>
</tr>
<tr>
<td>DO (mg/L)</td>
<td></td>
<td>6.91 6.71 6.60</td>
<td></td>
</tr>
<tr>
<td>% Sat DO</td>
<td></td>
<td>90.8 87.8 86.3</td>
<td></td>
</tr>
</tbody>
</table>

### Water Quality Sample Contn (A, B, D, H)

<table>
<thead>
<tr>
<th>Water Quality Sample Contn</th>
<th>Value</th>
<th>Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Depth (1M/MID)</td>
<td>152</td>
<td>Niskin</td>
</tr>
<tr>
<td>Secchi Depth (m)</td>
<td>1.60 Up: 1.50 Mean</td>
<td>163</td>
</tr>
<tr>
<td>In Situ Light Measmt (Store 3) (μE/m²/sec)</td>
<td>178.6</td>
<td>Niskin</td>
</tr>
<tr>
<td>Lower</td>
<td>125.1</td>
<td></td>
</tr>
</tbody>
</table>

### Description of Station Location

- NE of Siesta Key Bridge
- Slightly drizzle

### Comments

- Slight drizzle
- May have storm at 0.2 M reading
**FIELD CONDITIONS**

<table>
<thead>
<tr>
<th>CLOUD PERCENT</th>
<th>90</th>
</tr>
</thead>
<tbody>
<tr>
<td>WIND DIR (from DgM)</td>
<td>10</td>
</tr>
<tr>
<td>WIND VELOCITY (MPH)</td>
<td>5 10 15 20</td>
</tr>
<tr>
<td>WAVE HEIGHT (FT)</td>
<td>0.5 1 2 3</td>
</tr>
<tr>
<td>RELATIVE TIDAL STAGE</td>
<td>Ebb</td>
</tr>
<tr>
<td>WATER DEPTH (FT)</td>
<td>10.8</td>
</tr>
<tr>
<td>D.O. AIR CAL (% SAT)</td>
<td>97.2</td>
</tr>
</tbody>
</table>

**HYDROLAB MEASUREMENTS (6.5)**

| SALINITY (PSU) | 33.36 | 33.38 | 33.45 |
| TEMP (°C) | 18.59 | 18.54 | 18.18 |
| PH (SU) | 8.04 | 8.07 | 8.04 |
| SPEC COND (μS/Cm) | 50.72 | 50.75 | 50.88 |
| DO (mg/L) | 7.36 | 7.36 | 7.33 |
| % SAT DO | 95.4 | 96.5 | 94.3 |

**WQ SAMPLE CONTN (A,B,D,H)**

<table>
<thead>
<tr>
<th>DEPTH</th>
<th>1M</th>
<th>MID</th>
<th>METHOD</th>
<th>NISKIN</th>
</tr>
</thead>
<tbody>
<tr>
<td>#</td>
<td>0011</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**SECCHE DEPTH (M)**

| Dn: | 1.70 |
| Up: | 1.70 |

**IN SITU LIGHT MEASUREMENT (STORE 3) (μE/M/S)***

| UPPER @ > 0.2M | 163.5 |
| LOWER | 103.2 |

**SHORELINE DESCRIPTION**

BEACH / BOAT BASIN / COMMERCIAL / DOCKS / ISLAND / MARINA / MANGROVE / OPEN BAY / SEA WALL / RESIDENTIAL (LOW / MEDIUM / DENSE) / RIP RAP / VEGETATION /

**BOTTOM TYPE**

MUD SAND GRASS (NV)

**DESCRIPTION OF STATION LOCATION**

OF Marker 8

**COMMENTS:**

MML_ChemicalEcology_140213_1 log-sb-307.doc, Date: June 7, 2010
FIELD WORK LOG: Sarasota Bay Monitoring

Date: 01-14-14

Segments | US | 10 | 11 | 13 | 14 | 16 | DR | LB
---|---|---|---|---|---|---|---|---

Equipment Information

<table>
<thead>
<tr>
<th>Instrument</th>
<th>Model #</th>
<th>Serial #</th>
<th>Licor Analyst</th>
<th>Cal time (EST)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hydrolab Surveyor</td>
<td>4 / 4a</td>
<td>S1812</td>
<td>A Harsheil</td>
<td>1017</td>
</tr>
<tr>
<td>Hydrolab MiniSonde</td>
<td>4 / (4a) / 5</td>
<td>38016c</td>
<td>-298.92</td>
<td>256.2</td>
</tr>
<tr>
<td>Licor Data Logger</td>
<td>LI-1000 / LI-1400</td>
<td>4698</td>
<td>Water Multi</td>
<td>268.6</td>
</tr>
<tr>
<td>Licor Upper Sensor</td>
<td>LI-192SA</td>
<td>8269</td>
<td>100.4</td>
<td>256.2</td>
</tr>
<tr>
<td>Licor Lower Sensor</td>
<td>LI-192SA</td>
<td>8260</td>
<td>100.4</td>
<td>256.2</td>
</tr>
<tr>
<td>GPS</td>
<td></td>
<td>1w 0o 5' 1470</td>
<td>DATUM: NAD83</td>
<td>SPHERE: GRS80</td>
</tr>
</tbody>
</table>

General Field Conditions

Analyst: At Harsheil (Pre), At Harsheil (Post)

<table>
<thead>
<tr>
<th></th>
<th>0.5 KCl</th>
<th>0.1 KCl</th>
<th>pH 7.00</th>
<th>pH 10.00</th>
<th>% Sat DO</th>
</tr>
</thead>
<tbody>
<tr>
<td>Limits</td>
<td>55.708-61.572 ms/cm*</td>
<td>12.255-13.545 ms/cm*</td>
<td>6.8-7.2 SU</td>
<td>9.8-10.2 SU</td>
<td>96-104 %</td>
</tr>
<tr>
<td>Lot #</td>
<td>10-25-13 #1</td>
<td>12-10-13 #2</td>
<td>2305B21</td>
<td>2303A1H</td>
<td>01-13-14</td>
</tr>
<tr>
<td>Exp Date</td>
<td>01-25-14</td>
<td>06-10-14</td>
<td>05-30-15</td>
<td>09-30-14</td>
<td></td>
</tr>
<tr>
<td>Value -Pre</td>
<td>58.63</td>
<td>12.80</td>
<td>7.03</td>
<td>10.00</td>
<td>99.60 @ 22.75℃</td>
</tr>
<tr>
<td>Time -Pre (EST)</td>
<td>05:57</td>
<td>05:59</td>
<td>08:59</td>
<td>08:59</td>
<td>09:00</td>
</tr>
<tr>
<td>Value (Post)</td>
<td>58.73</td>
<td>12.83</td>
<td>7.01</td>
<td>10.00</td>
<td>102.2 @ 216℃</td>
</tr>
<tr>
<td>Time -Post (EST)</td>
<td>14:48</td>
<td>14:48</td>
<td>14:49</td>
<td>14:50</td>
<td>14:51</td>
</tr>
</tbody>
</table>

*: If Conductivity is off, repeat -DO NOT calibrate.
*: If pH / % Saturation of DO is off, calibrate.

RECORD ANY CHANGES TO BACK UP INSTRUMENTS IN LOG COMMENTS!
RECORD STATION TIMES FROM HYDROLAB AT FIRST READING!


MML_ChemicalEcology_140213_1
# MOTE MARINE LABORATORY, 1600 Ken Thompson Parkway, Sarasota, FL 34236 (941) 388-4441

## Physical/Chemical Characterization Field Sheet - SB Monitoring

**Date:**

**Samplers (Initials):**

**SEGMENT:**

<table>
<thead>
<tr>
<th>US</th>
<th>10</th>
<th>STA:</th>
<th>TIME</th>
<th>EST</th>
</tr>
</thead>
<tbody>
<tr>
<td>11</td>
<td>13</td>
<td>14</td>
<td>16</td>
<td></td>
</tr>
</tbody>
</table>

**LAT:**

- 27°13'41'"N

**LON:**

- 082°47'11"W

**FIELD CONDITIONS**

<table>
<thead>
<tr>
<th>CLOUD PERCENT</th>
<th>WIND DIR (from DegM)</th>
<th>WIND VELOCITY (MPH)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>NW</td>
<td>0 5 10 15 20</td>
</tr>
</tbody>
</table>

**WAVE HEIGHT (FT):**

- 0 0.5 1 2 3

**RELATIVE TIDAL STAGE:**

- Fld Ebb Silk-H Silk-L NV

**WATER DEPTH (FT):**

- 3.7 8.5

**D.O. AIR CAL (% SAT):**

- 100 90

**HYDROLAB MEASMT (6.5°):**

<table>
<thead>
<tr>
<th>SALINITY (PSU)</th>
<th>TEMP (°C)</th>
<th>PH (SU)</th>
<th>SPEC COND (MS/CM)</th>
<th>DO (MG/L)</th>
<th>% SAT DO</th>
</tr>
</thead>
<tbody>
<tr>
<td>34.19</td>
<td>16.80</td>
<td>7.84</td>
<td>51.97</td>
<td>7.47</td>
<td>94.1</td>
</tr>
</tbody>
</table>

**WQ SAMPLE CONTN (A,B,D,H):**

<table>
<thead>
<tr>
<th>DEPTH: IM/MID</th>
<th>METHOD: NISKIN</th>
</tr>
</thead>
<tbody>
<tr>
<td>Custody Y/N</td>
<td>Custody Y/N</td>
</tr>
</tbody>
</table>

**SECCHI DEPTH (M):**

- SI: 1.7

**IN SITU LIGHT MEASMT (STORE 3) (µE/MP Sec):**

- UPPER @ 0.2M 157.5

**SHORELINE DESCRIPTION:**

- BEACH / BOAT BASIN / COMMERCIAL / DOCKS / ISLAND / MARINA / MANGROVE / OPEN BAY / SEA WALL / RESIDENTIAL (LOW / MEDIUM / DENSE) / RIP RAP / VEGETATION /

**BOTTOM TYPE:**

- MUD SAND GRASS NV

**DESCRIPTION OF STATION LOCATION:**

- Mud Sand Grass NV

**COMMENTS:**

- Added last depth reading: 1.5m.
### Physical/Chemical Characterization Field Sheet - SB Monitoring

**Date:** 01-14-11  
**Samplers (Initials):** [Initials]

<table>
<thead>
<tr>
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<th>STA:</th>
<th>LAT</th>
<th>TIME</th>
<th>EST</th>
<th>STA:</th>
<th>LAT</th>
<th>TIME</th>
<th>EST</th>
</tr>
</thead>
<tbody>
<tr>
<td>11</td>
<td>13</td>
<td>14</td>
<td>16</td>
<td>27.151160°N</td>
<td>1107</td>
<td></td>
<td>16-2</td>
<td>27.160020°N</td>
<td>1124</td>
<td></td>
</tr>
<tr>
<td>DR</td>
<td>LB</td>
<td>MR</td>
<td></td>
<td>082.4971150°</td>
<td></td>
<td></td>
<td></td>
<td>082.484040°</td>
<td></td>
<td></td>
</tr>
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</table>

#### FIELD CONDITIONS

<table>
<thead>
<tr>
<th>CLOUD PERCENT</th>
<th>INT</th>
<th>WIND DIR (from DegM)</th>
<th>INT</th>
<th>WIND VELOCITY (MPH)</th>
<th>INT</th>
<th>WAVE HEIGHT (FT)</th>
<th>INT</th>
<th>RELATIVE TIDAL STAGE</th>
<th>INT</th>
<th>WATER DEPTH (FT)</th>
<th>INT</th>
<th>D.O. AIR CAL (% SAT)</th>
<th>INT</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>0 5 10 15 20</td>
<td></td>
<td>0 0.5 1 2 3</td>
<td></td>
<td>Fld Ebb, Sik-H, Sik-L, NV</td>
<td></td>
<td>3.47</td>
<td></td>
<td>104.7 @ A 44 °C</td>
<td></td>
</tr>
</tbody>
</table>

#### HYDROLAB MEASMT (6.5°)

<table>
<thead>
<tr>
<th>SALINITY (PSU)</th>
<th>TEMP (°C)</th>
<th>PH (SU)</th>
<th>SPEC COND (MS/Cm)</th>
<th>DO (mg/L)</th>
<th>% SAT</th>
<th>DO</th>
<th>WQ SAMPLE CONTN (A,B,D,H)</th>
<th>DEPTH:</th>
<th>METHOD:</th>
<th>Niskin</th>
</tr>
</thead>
<tbody>
<tr>
<td>33.98</td>
<td>19.22</td>
<td>7.83</td>
<td>51.64</td>
<td>6.99</td>
<td>93.2</td>
<td>0.2M</td>
<td>0.2M</td>
<td>0.2M</td>
<td>0.2M</td>
<td></td>
</tr>
</tbody>
</table>

#### SECCHI DEPTH (M)

<table>
<thead>
<tr>
<th>IN SITU LIGHT MEASMT (STORE 3) (µE/M²/Sec)</th>
<th>SHORELINE DESCRIPTION</th>
<th>BOTTOM TYPE</th>
<th>DESCRIPTION OF STATION LOCATION</th>
<th>COMMENTS:</th>
</tr>
</thead>
<tbody>
<tr>
<td>UPPER @ &gt; 0.2M 490.9</td>
<td>BEACH / BOAT BASIN / COMMERCIAL / DOCKS / ISLAND / MARINA / MANGROVE / OPEN BAY / SEA WALL / RESIDENTIAL (LOW / MEDIUM / DENSE) / RIP RAP / VEGETATION /</td>
<td>MUD, SAND, GRASS (NV)</td>
<td>SE of moellar 20</td>
<td>Licor 5 inches out of water</td>
</tr>
<tr>
<td>LOWER 312.7</td>
<td>BEACH / BOAT BASIN / COMMERCIAL / DOCKS / ISLAND / MARINA / MANGROVE / OPEN BAY / SEA WALL / RESIDENTIAL (LOW / MEDIUM / DENSE) / RIP RAP / VEGETATION /</td>
<td>MUD, SAND, GRASS (NV)</td>
<td>SW of moellar 23</td>
<td></td>
</tr>
</tbody>
</table>

**F:\CHEMLAB\FORMS\Log-sb-307".doc,** Date: June 7, 2010
<table>
<thead>
<tr>
<th>SEGMENT</th>
<th>US</th>
<th>10</th>
<th>STA: 16-1 TIME 1142 EST</th>
<th>STA: 14-5 TIME 1202 EST</th>
</tr>
</thead>
<tbody>
<tr>
<td>11</td>
<td>13</td>
<td>14</td>
<td>LAT 27.1842° N</td>
<td>LAT 27.1838° N</td>
</tr>
<tr>
<td>DR</td>
<td>LB</td>
<td>MR</td>
<td>LON 082.4908° W</td>
<td>LON 082.4918° W</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>FIELD CONDITIONS</th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>CLOUD PERCENT</td>
<td>A4</td>
<td>A4</td>
<td>95%</td>
</tr>
<tr>
<td>WIND DIR (from DegM)</td>
<td>0</td>
<td>0</td>
<td>5</td>
</tr>
<tr>
<td>WIND VELOCITY (MPH)</td>
<td>0</td>
<td>0</td>
<td>5</td>
</tr>
<tr>
<td>WAVE HEIGHT (FT)</td>
<td>0</td>
<td>0</td>
<td>10</td>
</tr>
<tr>
<td>RELATIVE TIDAL STAGE</td>
<td>Fld</td>
<td>Fld</td>
<td>Ebb</td>
</tr>
<tr>
<td>WATER DEPTH (FT)</td>
<td>0</td>
<td>0</td>
<td>20</td>
</tr>
<tr>
<td>D.O. AIR CAL (% SAT)</td>
<td>0</td>
<td>0</td>
<td>20</td>
</tr>
<tr>
<td>HYDROLAB MEASMTN (6.5°)</td>
<td>0.2m</td>
<td>0.2m</td>
<td>1m</td>
</tr>
<tr>
<td>SALINITY (ppt)</td>
<td>33.64</td>
<td>33.64</td>
<td>33.64</td>
</tr>
<tr>
<td>TEMP (°C)</td>
<td>18.60</td>
<td>18.60</td>
<td>18.60</td>
</tr>
<tr>
<td>PH (SU)</td>
<td>7.85</td>
<td>7.85</td>
<td>7.85</td>
</tr>
<tr>
<td>SPEC COND (MS/Cm)</td>
<td>51.13</td>
<td>51.13</td>
<td>51.13</td>
</tr>
<tr>
<td>DO (mg/L)</td>
<td>7.26</td>
<td>7.26</td>
<td>7.26</td>
</tr>
<tr>
<td>% SAT DO</td>
<td>90.7</td>
<td>90.7</td>
<td>90.7</td>
</tr>
<tr>
<td>WQ SAMPLE CONTN (A.B.D.H)</td>
<td>A4</td>
<td>A4</td>
<td>A4</td>
</tr>
<tr>
<td>DEPTH: 1M/MID</td>
<td>0.018</td>
<td>0.018</td>
<td>0.018</td>
</tr>
<tr>
<td>METHOD: NISKIN</td>
<td>Custody Y/N</td>
<td>Custody Y/N</td>
<td>Custody Y/N</td>
</tr>
<tr>
<td>SECCHI DEPTH (M)</td>
<td>0.75</td>
<td>0.75</td>
<td>0.75</td>
</tr>
<tr>
<td>IN SITU LIGHT MEASMTN</td>
<td>UPPER @ &gt;0.2M</td>
<td>LOWER</td>
<td>171.4</td>
</tr>
<tr>
<td>(STORE 3) (µE/Mp/Sec)</td>
<td>250.3</td>
<td>250.3</td>
<td>250.3</td>
</tr>
<tr>
<td>SHORELINE DESCRIPTION</td>
<td>BEACH / DOCKS / ISLAND / MARINA / OPEN BAY / SEA WALL / RESIDENTIAL (LOW / MEDIUM / DENSE) / RIP RAP / VEGETATION</td>
<td>BEACH / DOCKS / ISLAND / MARINA / OPEN BAY / SEA WALL / RESIDENTIAL (LOW / MEDIUM / DENSE) / RIP RAP / VEGETATION</td>
<td></td>
</tr>
<tr>
<td>BOTTOM TYPE</td>
<td>MUD / SAND / GRASS</td>
<td>MUD / SAND / GRASS</td>
<td></td>
</tr>
<tr>
<td>DESCRIPTION OF STATION LOCATION</td>
<td>NW of moorer 30A</td>
<td>NE of moorer 35</td>
<td></td>
</tr>
<tr>
<td>COMMENTS</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
# Physical/Chemical Characterization Field Sheet - SB Monitoring

**Date:** 6-14-14  
**Samplers (Initials):** ( ), ( ), ( )

### SEGMENT:  
<table>
<thead>
<tr>
<th>US</th>
<th>10</th>
<th>STA:</th>
<th>TIME</th>
<th>EST</th>
</tr>
</thead>
<tbody>
<tr>
<td>11</td>
<td>13</td>
<td>14</td>
<td>1218</td>
<td></td>
</tr>
<tr>
<td>DR</td>
<td>LB</td>
<td>MR</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### FIELD CONDITIONS

| CLOUD PERCENT | AH | 100% |
| WIND DIR (from DegM) | | |
| WIND VELOCITY (MPH) | 0 | 5 | 10 | 15 | 20 |
| WAVE HEIGHT (FT) | 0 | 0.5 | 1 | 2 | 3 |
| RELATIVE TIDAL STAGE | Fld Ebb | Silk-H | Silk-L | NV |
| WATER DEPTH (FT) | 5.64 | |
| D.O. AIR CAL (% SAT) | 104.9 | @ 20.10 °C |

### HYDROLAB MEASMT (6.5')

| SALINITY (PSU) | 53.05 | 53.11 | 53.21 |
| TEMP (°C) | 19.47 | 19.49 | 19.67 |
| pH (SU) | 7.90 | 7.91 | 7.91 |
| SPEC COND (MS/M) | 50.32 | 50.41 | 50.52 |
| DO (mg/L) | 7.46 | 7.42 | 7.57 |
| % SAT DO | 99.9 | 99.3 | 100.5 |

### WQ SAMPLE CONTN (A,B,D,H)

| DEPTH: | 1M / MID | METHOD: NISKIN |
| # 0032 | Custock | Y / N |
| DEPTH: | 1M / MID | METHOD: NISKIN |
| # 0019 | Custock | Y / N |

### SECCHI DEPTH (m)

<table>
<thead>
<tr>
<th>Dn:</th>
<th>7 B</th>
<th>Up:</th>
<th>MEAN</th>
</tr>
</thead>
<tbody>
<tr>
<td>SS</td>
<td>2.09</td>
<td>SS</td>
<td>7 B</td>
</tr>
</tbody>
</table>

### IN SITU LIGHT MEASMT (STORE 3) (µE/M²/SK)

| UPPER @ > 0.2M | 318 | 9 |
| LOWER | 200 | 9 |

### SHORELINE DESCRIPTION

BEACH / BOAT BASIN / COMMERCIAL DOCKS / ISLAND / MARINA / MANGROVE / OPEN BAY / SEA WALL / RESIDENTIAL (LOW / MEDIUM / DENSE) / RIF RAP / VEGETATION /

### BOTTOM TYPE

MUD / SAND / GRASS / NV

### DESCRIPTION OF STATION LOCATION

ACROSS bay from Spanish Pim.  
2m of clear out of water.  
Down near side channel on eastern bay

### COMMENTS:

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MOT Mmarine Laboratory, 1600 Ken Thompson Parkway, Sarasota, FL 34236 (941) 388-4441

Physical/Chemical Characterization Field Sheet - SB Monitoring

Date: 01-14-14

Samplers (Initials): ( ), ( ), ( )

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**FIELD CONDITIONS**

| CLOUD PERCENT | 100 % | | 100 % |
| WIND DIR (from DegM) | 170° | | |
| WIND VELOCITY (MPH) | 0 5 10 15 20 | | 0 5 10 15 20 |
| WAVE HEIGHT (FT) | 0.5 1 2 3 | | 0.5 1 2 3 |
| RELATIVE TIDAL STAGE | Fld Ebb Slik-H Slik-L (NV) | | Fld Ebb Slik-H Slik-L (NV) |
| WATER DEPTH (FT) | 8.44 | | 7.84 |
| D.O. AIR CAL (% SAT) | 104.3 @ 20.00 °C | | 104.4 @ 20.00 °C |

**HYDROLAB MEASUREMENT (6.5)**

| SALINITY (PSU) | 32.86 | 32.86 | 32.86 |
| TEMP (°C) | 19.45 | 19.68 | 19.43 |
| pH (SU) | 7.88 | 7.88 | 7.83 |
| SPEC COND (MS/CM) | 49.38 | 49.38 | 49.39 |
| DO (mg/L) | 7.62 | 7.41 | 7.41 |
| % SAT DO | 101 | 101 | 98.8 |

**WQ SAMPLE CONTN (A,B,D,H)**

| DEPTH: IM/MID METHOD: NISKIN | 0021 | | 0022 |
| SECCHE DEPTH (M) | 55 | Dn: 78 Up: TO MEAN | |
| IN SITU LIGHT MEASUREMENT (STORE 3) (µE/M²/Sec) | UPPER @ > 0.2M 310.9 | | UPPER @ > 0.2M 206.3 |
| LOWER | 238.5 | | LOWER | 172.5 |

**SHORELINE DESCRIPTION**

| BEACH / BOAT BASIN / COMMERCIAL / DOCKS / ISLAND / MARINA / MANGROVE / OPEN BAY / SEA WALL / RESIDENTIAL (LOW / MEDIUM / DENSE) / RIP RAP / VEGETATION/ | |
| BOTTOM TYPE | MUD SAND GRASS (NV) | MUD SAND GRASS (NV) |

**DESCRIPTION OF STATION LOCATION**

| NE OF MANSFIELD | |

**COMMENTS:**

F:\CHEMLAB\FORMS\Log-sb-307 .doc, Date: June 7, 2010
### Field Conditions

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<thead>
<tr>
<th>Parameter</th>
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<td>Wind Velocity (MPH)</td>
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<td>Wave Height (FT)</td>
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<tr>
<td>Relative Tidal Stage</td>
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<td>Fld Ebb Silk-H Silk-L NV</td>
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<td>Water Depth (FT)</td>
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<td>DO Air Cal (% SAT)</td>
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<td>Hydrolab Measmt (6.5')</td>
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<td>Salinity (PSU)</td>
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<td>% Sat DO</td>
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<td>WQ Sample Contn (A,B,D,H)</td>
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<td>Secchi Depth (M)</td>
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<tr>
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<td>35 UPPER @ &gt; 0.2M 244.8</td>
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<td>Shoreline Description</td>
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<tr>
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<td>Description of Station Location</td>
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<td>Mud Sand Grass NV</td>
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<td>Comments</td>
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"F:\CHEMLAB\FORMS\Log-sb-307.doc", Date: June 7, 2010
### MOTE MARINE LABORATORY, 1600 Ken Thompson Parkway, Sarasota, FL 34236 (941) 388-4441

**Physical/Chemical Characterization Field Sheet - SB Monitoring**

**Date:** 01-14-14

**Samplers (Initials):**

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#### FIELD CONDITIONS

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<td>WIND DIR (from DegM)</td>
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<td>WIND VELOCITY (MPH)</td>
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<td>10</td>
<td>15</td>
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<td>WAVE HEIGHT (FT)</td>
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<td>2</td>
<td>3</td>
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<td>RELATIVE TIDAL STAGE</td>
<td>Fld Ebb</td>
<td>Slk-H</td>
<td>Slk-L (NV)</td>
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<td>WATER DEPTH (FT)</td>
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<td>6.71</td>
<td></td>
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<tr>
<td>D.O. AIR CAL (% SAT)</td>
<td>AH 104.9</td>
<td>@ 20.14 °C</td>
<td>AH 104.9</td>
<td>@ 19.93 °C</td>
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<tr>
<td>HYDROLAB MEASMT (6.5&quot;)</td>
<td>0.2M</td>
<td>1M / MID</td>
<td>B-0.2M</td>
<td>0.2M</td>
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<tr>
<td>SALINITY (PSU)</td>
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<td>32.09</td>
<td>32.26</td>
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<td>19.50</td>
<td>19.40</td>
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<td>pH (SU)</td>
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<td>7.81</td>
<td>7.78</td>
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<td>SPEC COND (MS/Cm)</td>
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<td>49.01</td>
<td>49.31</td>
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<td>SECCHI DEPTH (M)</td>
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<td>UPPER @ ≥0.2M</td>
<td>173.3</td>
<td>TB UPPER @ ≥0.2M</td>
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<tr>
<td>BOTTOM TYPE</td>
<td>Mud</td>
<td>Sand</td>
<td>Grass</td>
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<tr>
<td>DESCRIPTION OF STATION LOCATION</td>
<td>In canal</td>
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**COMMENTS:**

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### MOTE MARINE LABORATORY, 1600 Ken Thompson Parkway, Sarasota, FL 34236 (941) 388-4441

**Physical/Chemical Characterization Field Sheet - SB Monitoring**

**Date:** 01-14-13

**Samplers (Initials):**

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<tr>
<td>DR</td>
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**Field Conditions**

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<tr>
<td>Cloud Percent</td>
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<td>100%</td>
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<td>Wind Dir (from DegM)</td>
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<td>Wind Velocity (MPH)</td>
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<td>0 5 10 15 20</td>
<td>0 5 10 15 20</td>
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<tr>
<td>Wave Height (FT)</td>
<td>0 0.5 1 2 3</td>
<td>0 0.5 1 2 3</td>
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<tr>
<td>Relative Tidal Stage</td>
<td>Fld Ebb Silk-H Silk-L NV</td>
<td>Fld Ebb Silk-H Silk-L NV</td>
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<td>Water Depth (FT)</td>
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<td>D.O. Air Cal (% Sat)</td>
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<td>103.7 @ 19.79 °C</td>
<td>@ °C</td>
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<tr>
<td>Hydrolab Measmnt (6.5')</td>
<td>0.2M</td>
<td>1M / MID</td>
<td>B - 0.2M</td>
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<tr>
<td>Salinity (PSU)</td>
<td>32.17 32.48 32.78</td>
<td>32.17 32.48 32.78</td>
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<tr>
<td>Temp (C)</td>
<td>19.61 19.62 19.71</td>
<td>19.61 19.62 19.71</td>
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<td>7.88 7.87 7.88</td>
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<td>% Sat DO</td>
<td>104.3 103.7 100.9</td>
<td>104.3 103.7 100.9</td>
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**WQ Sample Contn (A,B,D,H)**

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<th>Custody Y / N</th>
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<tr>
<td>Secchi Depth (M)</td>
<td>JS</td>
<td>Dn: 7B Up: MEAN</td>
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<tr>
<td>In Situ Light Measmnt (Store 3) (µE/M²/Sec)</td>
<td>JS</td>
<td>UPPER @ &gt; 0.2M</td>
</tr>
<tr>
<td>Shoreline Description</td>
<td>AH</td>
<td>Beach / Boat Basin / Commercial / Docks / Island / Marina / Mangrove / Open Bay / Sea Wall / Residential (Low / Medium / Dense) / Rip Rap / Vegetation</td>
</tr>
<tr>
<td>Bottom Type</td>
<td>Mud Sand Grass NV</td>
<td>Mud Sand Grass NV</td>
</tr>
<tr>
<td>Description of Station Location</td>
<td>Near San Marco Ave behind Island</td>
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<tr>
<td>Comments:</td>
<td>May 2010 sampling site; tide unk.</td>
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FIELD WORK LOG: Sarasota Bay Monitoring

Date 1-14-14

Samplers Name (Initials) Susan L., Jim C., Chris B.

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Equipment Information

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<td>Hydrolab MiniSonde</td>
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<td>C. C.</td>
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<td>67.73 BT</td>
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General Field Conditions

Analyst: S. L. (Pre), S. L. (Post)

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<th>Limits</th>
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<th>0.1 KCl</th>
<th>pH 7.00</th>
<th>pH 10.00</th>
<th>% Sat DO</th>
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<td>55.70-61.572 ms/cm*</td>
<td>12.255-13.545 ms/cm*</td>
<td>6.8-7.2 SU†</td>
<td>9.8-10.2 SU†</td>
<td>96-104 %†</td>
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<td>9.88</td>
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*: If Conductivity is off, repeat -DO NOT calibrate.
†: If pH / % Saturation of DO is off, calibrate.

RECORD ANY CHANGES TO BACK UP INSTRUMENTS IN LOG COMMENTS!
RECORD STATION TIMES FROM HYDROLAB AT FIRST READING!
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<td>WIND VELOCITY (MPH)</td>
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<td>WAVE HEIGHT (FT)</td>
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<td>RELATIVE TIDAL STAGE</td>
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<td>Ebb</td>
</tr>
<tr>
<td>WATER DEPTH (FT)</td>
<td>Tc</td>
<td>Tc</td>
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<tr>
<td>D.O. AIR CAL (% SAT)</td>
<td>SL</td>
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<tr>
<td>HYDROLAB MEASMT (6.5°)</td>
<td>0.2M</td>
<td>0.2M</td>
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<tr>
<td>SALINITY (PSU)</td>
<td>SL</td>
<td>SL</td>
</tr>
<tr>
<td>TEMP (°C)</td>
<td>SL</td>
<td>SL</td>
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<tr>
<td>PH (SU)</td>
<td>SL</td>
<td>SL</td>
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<tr>
<td>SPEC COND (MS/Cm)</td>
<td>SL</td>
<td>SL</td>
</tr>
<tr>
<td>DO (mg/L)</td>
<td>SL</td>
<td>SL</td>
</tr>
<tr>
<td>% SAT DO</td>
<td>SL</td>
<td>SL</td>
</tr>
<tr>
<td>WQ SAMPLE CONTN (A,B,D,H)</td>
<td>SL</td>
<td>SL</td>
</tr>
<tr>
<td>SECCHI DEPTH (m)</td>
<td>SL</td>
<td>SL</td>
</tr>
<tr>
<td>IN SITU LIGHT MEASMT (STORE 3) (µE/M²/Sec)</td>
<td>SL</td>
<td>SL</td>
</tr>
<tr>
<td>SHORELINE DESCRIPTION</td>
<td>SL</td>
<td>SL</td>
</tr>
<tr>
<td>BOTTOM TYPE</td>
<td>SL</td>
<td>SL</td>
</tr>
<tr>
<td>DESCRIPTION OF STATION LOCATION</td>
<td>SL</td>
<td>SL</td>
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<tr>
<td>COMMENTS:</td>
<td>SL</td>
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**Physical/Chemical Characterization Field Sheet - SB Monitoring**

**Date:** 1/14/14

**Samplers (Initials):** SL

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<tr>
<th>SEGMENT</th>
<th>US</th>
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<th>STA:</th>
<th>TIME</th>
<th>LAT</th>
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<th>EST</th>
<th>STA:</th>
<th>TIME</th>
<th>LAT</th>
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<td>16</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>DR</td>
<td>LB</td>
<td>MR</td>
<td></td>
<td></td>
<td></td>
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<td></td>
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<tr>
<th>FIELD CONDITIONS</th>
<th>INI</th>
<th>SL</th>
<th>90</th>
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<tbody>
<tr>
<td>CLOUD PERCENT</td>
<td></td>
<td></td>
<td>330</td>
</tr>
<tr>
<td>WIND DIR (from DEgM)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>WIND VELOCITY (MPH)</td>
<td>0 5 10 15 20</td>
<td>0 5 10 15 20</td>
<td></td>
</tr>
<tr>
<td>WAVE HEIGHT (FT)</td>
<td>0 5 1 2 3</td>
<td>0 5 1 2 3</td>
<td></td>
</tr>
<tr>
<td>RELATIVE TIDAL STAGE</td>
<td>Fld Ebb Slik-H Slik-L NV</td>
<td>Fld Ebb Slik-H Slik-L NV</td>
<td></td>
</tr>
<tr>
<td>WATER DEPTH (FT)</td>
<td>T</td>
<td>5.4</td>
<td></td>
</tr>
<tr>
<td>D.O. AIR CAL (% SAT)</td>
<td>SL</td>
<td>96.3 @ 20.05°C</td>
<td>96.3 @ 20.78°C</td>
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<table>
<thead>
<tr>
<th>HYDROLAB MEASMT (6.5')</th>
<th>0.2M</th>
<th>1M/MID</th>
<th>B-0.2M</th>
<th>0.2M</th>
<th>1M/MID</th>
<th>B -0.2M</th>
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</thead>
<tbody>
<tr>
<td>SALINITY (PSU)</td>
<td>33.02</td>
<td>33.03</td>
<td>33.03</td>
<td>32.69</td>
<td>32.69</td>
<td>32.79</td>
</tr>
<tr>
<td>TEMP (°C)</td>
<td>20.13</td>
<td>20.14</td>
<td>20.12</td>
<td>20.35</td>
<td>20.31</td>
<td>20.45</td>
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<tr>
<td>pH (SU)</td>
<td>7.63</td>
<td>7.64</td>
<td>7.67</td>
<td>7.58</td>
<td>7.61</td>
<td>7.63</td>
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<tr>
<td>SPEC COND (MS/CM)</td>
<td>50.27</td>
<td>50.16</td>
<td>50.29</td>
<td>49.81</td>
<td>49.81</td>
<td>49.83</td>
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<tr>
<td>DO (mg/L)</td>
<td>5.91</td>
<td>5.98</td>
<td>5.98</td>
<td>5.76</td>
<td>5.73</td>
<td>5.70</td>
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<tr>
<td>% SAT DO</td>
<td>80.3</td>
<td>80.7</td>
<td>80.7</td>
<td>77.9</td>
<td>77.4</td>
<td>76.9</td>
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<table>
<thead>
<tr>
<th>WQ SAMPLE CONTN (A,B,D,H)</th>
<th>DEPTH: 1M/MID</th>
<th>METHOD: NISKIN</th>
<th>DEPTH: 1M/MID</th>
<th>METHOD: NISKIN</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td># 0045</td>
<td>Custom Y/N</td>
<td># 0038</td>
<td>Custom Y/N</td>
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<table>
<thead>
<tr>
<th>SECCHI DEPTH (M)</th>
<th>IN SITU LIGHT MEASMT (STORE 3) (µE/M²/Sec)</th>
<th>SHORELINE DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>T</td>
<td>Dn: 7.5 Up:</td>
<td>UPPER @ ≥0.2M 291.5</td>
</tr>
<tr>
<td>T</td>
<td>Dn: 7.5 Up:</td>
<td>LOWER 233.1</td>
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</table>

<table>
<thead>
<tr>
<th>BOTTOM TYPE</th>
<th>DESCRIPTION OF STATION LOCATION</th>
<th>COMMENTS:</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUD SAND GRASS</td>
<td>SW of marker 41</td>
<td>3.6.5 LS</td>
</tr>
<tr>
<td>SEGMENT:</td>
<td>US</td>
<td>10</td>
</tr>
<tr>
<td>----------</td>
<td>-----</td>
<td>----</td>
</tr>
<tr>
<td>11</td>
<td>13</td>
<td>14</td>
</tr>
<tr>
<td>DR</td>
<td>LB</td>
<td>MR</td>
</tr>
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</table>

<table>
<thead>
<tr>
<th>STA:</th>
<th>TIME</th>
<th>EST</th>
<th>LAT</th>
<th>LON</th>
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<tbody>
<tr>
<td>DRS</td>
<td>11:57</td>
<td></td>
<td>27.08547</td>
<td>82.43084</td>
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**FIELD CONDITIONS**

<table>
<thead>
<tr>
<th>CLOUD PERCENT</th>
<th>90</th>
<th>100</th>
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</table>

<table>
<thead>
<tr>
<th>WIND DIR (from DegM)</th>
<th>0 5 10 15 20</th>
<th>0 5 10 15 20</th>
</tr>
</thead>
<tbody>
<tr>
<td>WIND VELOCITY (MPH)</td>
<td>0.5 0.5 1 2 3</td>
<td>0.5 1 2 3</td>
</tr>
<tr>
<td>WAVE HEIGHT (FT)</td>
<td>Fld Ebb Silk-H Silk-L</td>
<td>Fld Ebb Silk-H Silk-L</td>
</tr>
<tr>
<td>WATER DEPTH (FT)</td>
<td>9.2</td>
<td>9.2</td>
</tr>
<tr>
<td>D.O. AIR CAL (% SAT)</td>
<td>4.7</td>
<td>97.5</td>
</tr>
</tbody>
</table>

**HYDROLAB MEASMT (6 5)**

| TEMP (°C) | 20.41 20.38 20.36 | 20.83 20.17 20.15 |
| PH (SU) | 7.51 7.53 7.53 | 7.59 7.58 7.57 |
| SPEC COND (MS/CM) | 4.90 4.91 4.92 | 4.88 4.91 4.92 |
| DO (mg/L) | 5.49 5.43 5.40 | 6.05 6.08 6.11 |
| % SAT DO | 74.2 73.2 72.6 | 81.3 81.2 81.1 |

**WQ SAMPLE CONTN (A,B,D,H)**

<table>
<thead>
<tr>
<th>DEPTH</th>
<th>IN</th>
<th>MID</th>
<th>METHOD: NISKIN</th>
</tr>
</thead>
<tbody>
<tr>
<td># 0039</td>
<td>Custody N</td>
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<td></td>
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</table>

**SECCI DEPTH (M)**

<table>
<thead>
<tr>
<th>IN SITU LIGHT MEASMT (STORE 3) (µE/MP SEC)</th>
<th>UPPER @ &gt; 0.2M</th>
<th>LOWER</th>
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<tbody>
<tr>
<td>3.253</td>
<td>230.4</td>
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</table>

**SHORELINE DESCRIPTION**

<table>
<thead>
<tr>
<th>BOTTOM TYPE</th>
<th>DESCRIPTION OF STATION LOCATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUD SAND GRASS</td>
<td>Swamp, idle speed sign, soft dirt/dock</td>
</tr>
<tr>
<td>MUD SAND GRASS</td>
<td>No ICUS vessel</td>
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</tbody>
</table>
### Field Conditions

<table>
<thead>
<tr>
<th>Field Conditions</th>
<th>Code</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cloud Percent</td>
<td>SL</td>
<td>95</td>
</tr>
<tr>
<td>Wind Dir (from DepM)</td>
<td>0.5</td>
<td>1 2 3</td>
</tr>
<tr>
<td>Wind Velocity (MPH)</td>
<td>0 5 10 15 20</td>
<td></td>
</tr>
<tr>
<td>Wave Height (FT)</td>
<td>0 0.5 1 2 3</td>
<td></td>
</tr>
<tr>
<td>Relative Tidal Stage</td>
<td>Fld Ebb Slk-H Slk-L</td>
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</tr>
<tr>
<td>Water Depth (FT)</td>
<td>JC</td>
<td>10.0</td>
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<tr>
<td>D.O. Air Calc (% Sat)</td>
<td>SL</td>
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### Hydrolab Measurements (6.5')

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Code</th>
<th>Value</th>
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<tbody>
<tr>
<td>Salinity (psu)</td>
<td>SL</td>
<td>32.04 33.52 34.58</td>
</tr>
<tr>
<td>Temp (°C)</td>
<td>SL</td>
<td>20.31 19.50 18.97</td>
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<tr>
<td>pH (SU)</td>
<td>SL</td>
<td>7.80 7.70 7.85</td>
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<tr>
<td>Specific Conductivity (μS/cm)</td>
<td>48.78 51.04 52.39</td>
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</tr>
<tr>
<td>DO (mg/L)</td>
<td>SL</td>
<td>6.57 6.40 6.67</td>
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<tr>
<td>% Sat Do</td>
<td>SL</td>
<td>88.3 85.8 88.9</td>
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### WQ Sample Continuity (A,B,D,H)

<table>
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<th>Code</th>
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<tbody>
<tr>
<td>Depth</td>
<td>JC</td>
<td>0.2M</td>
</tr>
<tr>
<td>Mid</td>
<td>JC</td>
<td>0.2M</td>
</tr>
<tr>
<td>Method</td>
<td>Niskin</td>
<td>0.2M</td>
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</table>

### Secchi Depth (M)

<table>
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<tr>
<th>Parameter</th>
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<tbody>
<tr>
<td>In situ Light Meas (Store 3) (μE/MP/Sec)</td>
<td>JC</td>
<td>UPPER @ &gt; 0.2M 426.8 304.1</td>
</tr>
<tr>
<td>Shoreline Description</td>
<td>SL</td>
<td>Beach / Boat Basin / Commercial / Rocks / Island / Marina / Mangrove / OPEN BAY / SEA WALL / RESIDENTIAL (LOW / MEDIUM / DENSE / RIP RAP / VEGETATION)</td>
</tr>
<tr>
<td>Bottom Type</td>
<td>SL</td>
<td>Mud / Sand / Grass</td>
</tr>
<tr>
<td>Description of Station Location</td>
<td>SL</td>
<td>SW of mark 18</td>
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### Comments:

F:\CHEMLAB\FORMS\Log-sb-307.doc, Date: June 7, 2010
## Field Conditions

<table>
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<th>Condition</th>
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<tr>
<td>CLOUD PERCENT</td>
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<tr>
<td>WIND DIR (from DegM)</td>
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<tr>
<td>WIND VELOCITY (MPH)</td>
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<tr>
<td>WAVE HEIGHT (FT)</td>
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<td>2 1 3</td>
<td></td>
</tr>
<tr>
<td>RELATIVE TIDAL STAGE</td>
<td></td>
<td>Fld Ebb Sil-H Sil-L NV</td>
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<tr>
<td>WATER DEPTH (FT)</td>
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<tr>
<td>D.O. AIR CAL (% SAT)</td>
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</tr>
<tr>
<td>HYDROLAB MEASMT (6.5')</td>
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<td>0.2M 34.93 34.93 34.95</td>
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<tr>
<td>SALINITY (psu)</td>
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<td>TEMP (°C)</td>
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<td>7.90 7.80 7.89</td>
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<tr>
<td>PH (SU)</td>
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<td>52.88 52.88 52.88</td>
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<tr>
<td>SPEC COND (MS/Cm)</td>
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<td>7.00 6.97 7.03</td>
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<tr>
<td>DO (mg/L)</td>
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<td>9.6 92.7 93.5</td>
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<tr>
<td>% SAT DO</td>
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<tr>
<td>WQ SAMPLE CONTN (A,B,D,H)</td>
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<tr>
<td>SECCHI DEPTH (M)</td>
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<td>1.88 1.70</td>
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</tr>
<tr>
<td>IN SITU LIGHT MEASMT (STORE 3) (µE/M²/Sec)</td>
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</tr>
<tr>
<td>SHORELINE DESCRIPTION</td>
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<tr>
<td>BOTTOM TYPE</td>
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<tr>
<td>DESCRIPTION OF STATION LOCATION</td>
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<td>NE of inlet</td>
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<tr>
<td>COMMENTS</td>
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F:\CHEMLAB\FORMS\Log-sb-307.doc, Date: June 7, 2010
Regional Ambient Monitoring Program

Study # 70 January 2014
(Water Quality, Nutrient Data)

<table>
<thead>
<tr>
<th>Station</th>
<th>Sample Date</th>
<th>Sample Time</th>
<th>Sample Container Number</th>
<th>Nitrate, Nitrite as N EPA 353.2</th>
<th>Ammonia as N SM 20 4500 NH3 G</th>
<th>Total Kjeldahl Nitrogen as N EPA 351.2</th>
<th>Orthophosphates as P SM 4500-P F</th>
<th>Total Phosphorus as P EPA 365.4</th>
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<tbody>
<tr>
<td>RAMP#70 R1</td>
<td>1/15/2014</td>
<td>1140</td>
<td>140059</td>
<td>0.158</td>
<td>0.008 I</td>
<td>0.77</td>
<td>0.043</td>
<td>0.10 I</td>
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<td>RAMP#70 R2</td>
<td>1/15/2014</td>
<td>1145</td>
<td>140060</td>
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<td>0.007 I</td>
<td>0.79</td>
<td>0.043</td>
<td>0.11 I</td>
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<tr>
<td>RAMP#70 R3</td>
<td>1/15/2014</td>
<td>1150</td>
<td>140061</td>
<td>0.155</td>
<td>0.009 I</td>
<td>0.78</td>
<td>0.045</td>
<td>0.10 I</td>
</tr>
</tbody>
</table>

U = Less than Method Detection Limit
I = Value is greater than or equal to MDL but less than the Practical Quantitation Limit (PQL)
## Regional Ambient Monitoring Program
### Study # 70 January 2014
(Water Quality, Physical Data)

<table>
<thead>
<tr>
<th>Station</th>
<th>Sample Date</th>
<th>Sample Time</th>
<th>Sample Container Number</th>
<th>Total Suspended Solids SM 2540D</th>
<th>Turbidity SM 2130B</th>
<th>Color Apparent SM 2120B</th>
</tr>
</thead>
<tbody>
<tr>
<td>RAMP#70 R1</td>
<td>1/15/2014</td>
<td>1140</td>
<td>140059</td>
<td>7.1 1/15/2014 3.4 1/16/2014 1059</td>
<td>50 8.19 1/15/2014 1459</td>
<td></td>
</tr>
<tr>
<td>RAMP#70 R2</td>
<td>1/15/2014</td>
<td>1145</td>
<td>140060</td>
<td>6.1 1/15/2014 3.2 1/16/2014 1057</td>
<td>50 8.19 1/15/2014 1501</td>
<td></td>
</tr>
<tr>
<td>RAMP#70 R3</td>
<td>1/15/2014</td>
<td>1150</td>
<td>140061</td>
<td>6.1 1/15/2014 4.0 1/16/2014 1058</td>
<td>50 8.19 1/15/2014 1502</td>
<td></td>
</tr>
</tbody>
</table>

U = Less than Method Detection Limit
I = Value is greater than or equal to MDL but less than the Practical Quantitation Limit (PQL)
## Regional Ambient Monitoring Program

### Study # 70 January 2014

(Water Quality, Physical Data)

<table>
<thead>
<tr>
<th>Station</th>
<th>Sample Date</th>
<th>Time</th>
<th>Sample Container Number</th>
<th>Chlorophyll a - Pheo Corrected ug/L</th>
<th>Analysis Date</th>
<th>Filtration Date</th>
<th>Filtration Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>RAMP#70 R1</td>
<td>1/15/2014</td>
<td>1140</td>
<td>140059</td>
<td>38.77</td>
<td>01/23/14</td>
<td>01/15/14</td>
<td>1422</td>
</tr>
<tr>
<td>RAMP#70 R2</td>
<td>1/15/2014</td>
<td>1145</td>
<td>140060</td>
<td>39.32</td>
<td>01/23/14</td>
<td>01/15/14</td>
<td>1407</td>
</tr>
<tr>
<td>RAMP#70 R3</td>
<td>1/15/2014</td>
<td>1150</td>
<td>140061</td>
<td>38.26</td>
<td>01/23/14</td>
<td>01/15/14</td>
<td>1422</td>
</tr>
</tbody>
</table>

U = Less than Method Detection Limit  
I = Value is greater than or equal to MDL but less than the Practical Quantitation Limit (PQL)
# Custody Sheet

**Sampling Date:** 01/15/14  
**Kit #:** 141-0003  
**Log Book Pg #:**  
**Samplers (Initials):** Nissanka

<table>
<thead>
<tr>
<th>STATION DESIGNATION</th>
<th>TIME (EST)</th>
<th>SAMPLE DEPTH</th>
<th>H - 14</th>
<th>D - 14</th>
<th>B - 14</th>
<th>A - 14</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ramp 70R1</td>
<td>11:40</td>
<td></td>
<td>0059</td>
<td>0059</td>
<td>0059</td>
<td>0059</td>
</tr>
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**CONTAINER COUNT, THIS PAGE ONLY:** 11

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**RECEIVED BY:**  
**DATE/TIME:** 01/15/14 13:05  
**COUNT VERIFIED:**

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RAMP_131213.wpd, Last Update: December 13, 2013

MML_Chemical Ecology_140213_1 45 of 45
February 21, 2014

Ms. Kathryn L. Meaux
Sarasota County Water Resources
1001 Sarasota Center Blvd.
Sarasota, FL 34240

Dear Ms. Meaux

Enclosed are the data tables, field and custody records from the February 2014 sampling of Sarasota Bay that Mote Marine Laboratory (MML) performed for Sarasota County. The magnetic data are enclosed as an Excel 11.8 file (SBMN0214.XLS). Data are organized as nine tables with descriptions which follow.

- Transmittal letter and cover page: 1 page
- Mid-Day in situ profiles: 4 pages
- Station locations and water clarity: 2 pages
- Water quality analyses: 6 pages
- Weather conditions during samplings: 1 page
- Custody sheets for water quality samples: 3 pages
- Field Work Logs for Segments US, 10 and 11: 9 pages
- Field Work Logs for Segments 13, 14 and 16: 9 pages
- Field Work Logs for segments DR and LB: 6 pages

Total (including this letter): 41 pages

All portions of these water quality analyses were satisfactory.

All the test results for water quality analysis in this report meet the NELAC standards with the exception of Karenia brevis cell counts, and field measurements which are not included under certifiable analytes under Non-Potable Water (NPW) – NELAC, but are analyzed under MML’s approved Quality Plan.

These data will be transmitted with in 10 days from this report to Mr. Dan Dye for incorporation into the Sarasota County Water Atlas.

Please don’t hesitate to call if I may answer any further questions regarding this report.

Sincerely,

Ari Nissanka
Staff Scientist

Enclosures AN:mig
## Sarasota Bay Status and Trends Monitoring
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* -9 = No data due to strong current
### Sarasota Bay Status and Trends Monitoring
#### Station Locations and Water Clarity

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## Sarasota Bay Status and Trends Monitoring

### Water Quality Analyses - Summary Report

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U = Less than Method Detection Limit (MDL)

I = Value is greater than or equal to MDL but less than the Practical Quantitation Limit (PQL)
## Sarasota Bay Status and Trends Monitoring

### Water Quality Analyses - Summary Report

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| 14-1-02  | 1.0M         | 1255        | 140094        | 02/04/14      | 0.0071               | 0.005                   | 0.007          | 0.45    |
| 14-2-02  | MID          | 1241        | 140092        | 02/04/14      | 0.005                | 0.005                   | 0.005          | 0.47    |
| 14-3-02  | 1.0M         | 1227        | 140091        | 02/04/14      | 0.013                | 0.005                   | 0.013          | 0.55    |
| 14-4-02  | MID          | 1212        | 140082        | 02/04/14      | 0.005                | 0.005                   | 0.005          | 0.50    |
| 14-5-02  | MID          | 1209        | 140089        | 02/04/14      | 0.013                | 0.005                   | 0.013          | 0.46    |
| 16-1-02  | MID          | 1139        | 140081        | 02/04/14      | 0.005                | 0.005                   | 0.005          | 0.44    |
| 16-2-02  | MID          | 1115        | 140083        | 02/04/14      | 0.005                | 0.005                   | 0.005          | 0.45    |
| 16-3-02  | 1.0M         | 1100        | 140093        | 02/04/14      | 0.011                | 0.005                   | 0.011          | 0.43    |
| 16-4-02  | MID          | 1047        | 140086        | 02/04/14      | 0.007                | 0.005                   | 0.007          | 0.38    |
| 16-5-02  | 1.0M         | 1025        | 140084        | 02/04/14      | 0.005                | 0.005                   | 0.005          | 0.38    |
| 16-5-02  | REP          | 1030        | 140088        | 02/04/14      | 0.008                | 0.005                   | 0.008          | 0.37    |
| DR-1-02  | MID          | 1408        | 140106        | 02/04/14      | 0.006                | 0.005                   | 0.006          | 0.35    |
| DR-2-02  | MID          | 1337        | 140105        | 02/04/14      | 0.010                | 0.005                   | 0.010          | 0.42    |
| DR-3-02  | MID          | 1305        | 140098        | 02/04/14      | 0.007                | 0.005                   | 0.007          | 0.36    |
| DR-4-02  | 1.0M         | 1247        | 140101        | 02/04/14      | 0.015                | 0.005                   | 0.015          | 0.42    |
| DR-5-02  | MID          | 1220        | 140099        | 02/04/14      | 0.024                | 0.005                   | 0.024          | 0.40    |
| LB-1-02  | MID          | 1152        | 140097        | 02/04/14      | 0.034                | 0.005                   | 0.034          | 0.54    |
| LB-2-02  | MID          | 1133        | 140103        | 02/04/14      | 0.018                | 0.005                   | 0.018          | 0.57    |
| LB-3-02  | MID          | 1109        | 140102        | 02/04/14      | 0.049                | 0.005                   | 0.049          | 0.59    |
| LB-4-02  | MID          | 1048        | 140108        | 02/04/14      | 0.005                | 0.005                   | 0.005          | 0.61    |
| LB-5-02  | MID          | 1021        | 140104        | 02/04/14      | 0.005                | 0.005                   | 0.005          | 0.47    |
| LB-5-02  | REP          | 1026        | 140100        | 02/04/14      | 0.005                | 0.005                   | 0.005          | 0.52    |
| EQP BLK  | 0930         | 140069      | 02/04/14      | 0.005         | 0.005                 | 0.005                  | 0.005          | 0.05    |
| EQP BLK  | 1017         | 140085      | 02/04/14      | 0.005         | 0.005                 | 0.005                  | 0.005          | 0.05    |
| EQP BLK  | 1005         | 140107      | 02/04/14      | 0.005         | 0.005                 | 0.005                  | 0.005          | 0.05    |

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# Sarasota Bay Status and Trends Monitoring

## Water Quality Analyses - Summary Report

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**Water Quality Analyses - Summary Report**

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U = Less than Method Detection Limit (MDL)
I = Value is greater than or equal to MDL but less than the Practical Quantitation Limit (PQL)
## Sarasota Bay Status and Trends Monitoring

### Water Quality Analyses - Summary Report

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U = Less than Method Detection Limit (MDL)
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ANALYSES
A - NH₄, NO₂, NO₃, TKN, TOTP
B - PO₄, P
D - BOD₅, Color, A, Turb
R - Cell Counts (K. brevis)
H - Chl-a (Fluoro)

Matrix: Est/Marine, Surface Water,
CONTAINER COUNT, THIS PAGE ONLY

RELINQUISHED BY:
(SAMPLER'S SIGNATURE)

RECEIVED BY:
(TRANSPORTER'S SIGNATURE)

DATE/TIME: 02.04.14
COUNT VERIFIED:

RELINQUISHED BY:

RECEIVED BY:

DATE/TIME: 02.04.14
COUNT VERIFIED:

Ice Present: 
Temperature Blank: 5.5°C
Containers verified 100%
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ANALYSES: A - NH₃, N, NO₃, N, TKN, TOTP B - PO₄, P D - BOD, Color A, Turb R - Cell Counts (K. brevis) H - Chl-a (Fluror)

Matrix: Est/Marine, Surface Water
CONTAINER COUNT, THIS PAGE ONLY: 88

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RECEIVED BY: [Signature]
DATE/TIME: 2.4.14 15:21
COUNT VERIFIED: [Signature]

RELINQUISHED BY: [Signature]
RECEIVED BY: [Signature]
DATE/TIME: 15:21 2:4:14
COUNT VERIFIED: [Signature]

Ice Present: [ ] Temperature Blank: [4.0 °C]
Containers verified 100% [ ]
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<th>R - 14</th>
<th>B - 14</th>
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<td>P, ½ gal</td>
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**ANALYSES**

A - NH₃, NO₂, NO₃, U, TKN, TOTP  
B - PO₄  
D - BOD₅, Color-A, Turb  
R - Cell Counts (K. brevis)  
H - Chl-a (Fluoro)

**Matrix:** Est(Marine), Surface Water,  
**CONTAINER COUNT, THIS PAGE ONLY:** 59

**RELINQUISHED BY:**  
(SAMPLER'S SIGNATURE)

**RECEIVED BY:** (TRANSPORTER'S SIGNATURE)  
**DATE/TIME:** 2-4-14 1625

**RELINQUISHED BY:**  
**RECEIVED BY:**

**DATE/TIME:** 2-4-14 1625  
**COUNT VERIFIED:**

**Ice Present:** ✓  
**Temperature Blank:** 3.0°C  
**Containers verified 100% ✓**

SB 307-13-121213.wpd, Revised Date: December 13, 2013

MML_Chemical Ecology_140221_1
FIELD WORK LOG: Sarasota Bay Monitoring

Date 02.04.14
Samplers Name (Initials) Love, Jim, Chris

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<th>Segments</th>
<th>US</th>
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Equipment Information

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<th>Instrument</th>
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<th>Licor Analyst</th>
<th>Cal time (EST)</th>
<th>Water Multi</th>
<th>Cal Readings</th>
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<td>Hydrolab Surveyor</td>
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General Field Conditions

Clear, skies, sunny, calm, light breeze

Analyst: Love (Pre), Love (Post)

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<th>0.1 KCl</th>
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<td>55.708-61.572 ms/cm</td>
<td>12.255-13.545 ms/cm</td>
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<td>9.8-10.2 SU</td>
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<td>13.32</td>
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*: If Conductivity is off, repeat -DO NOT calibrate.
†: If pH / % Saturation of DO is off, calibrate.

RECORD ANY CHANGES TO BACK UP INSTRUMENTS IN LOG COMMENTS!
RECORD STATION TIMES FROM HYDROLAB AT FIRST READING!
### Field Conditions

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<td><strong>Wind Velocity (MPH)</strong></td>
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<td><strong>Wave Height (FT)</strong></td>
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<tr>
<td><strong>Relative Tidal Stage</strong></td>
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<tr>
<td><strong>Water Depth (FT)</strong></td>
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<tr>
<td><strong>D.O. Air Calc (% Sat)</strong></td>
<td>98.0 @ 23.17°C</td>
<td>98.1 @ 21.37°C</td>
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### Hydrolab Measurements (6.5')

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<td><strong>Temp (°C)</strong></td>
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<td><strong>pH (SU)</strong></td>
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<td><strong>DO (mg/L)</strong></td>
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### Secchi Depth (M)

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### Shoreline Description

- Beach / Boat Basin / Commercial / Docks / Island / Marina / Mangrove / Open-Bay / Sea Wall / Residential (Low / Medium / Dense) / Rip Rap / Vegetation

### Comments:

- North of Keaning & Salty Dog Channel
- May have found two surface readings.
**Mote Marine Laboratory**, 1600 Ken Thompson Parkway, Sarasota, F. 34236 (941) 388-4441

**Date**: 02.04.14

**Project #** 112-307

---

### Physical/Chemical Characterization Field Sheet - SB Monitoring

**Date**: 02.04.14

**Sample (Initials)**: 

---

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<th>STA:</th>
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<th>LAT</th>
<th>LON</th>
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### Field Conditions

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<th>WIND VELOCITY (MPH)</th>
<th>WAVE HEIGHT (FT)</th>
<th>RELATIVE TIDAL STAGE</th>
<th>WATER DEPTH (FT)</th>
<th>D.O. AIR CAL (% SAT)</th>
<th>HYDROLAB MEASUREMENT (6.5°)</th>
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<td>150</td>
<td>10 15 20</td>
<td>0.5 1 2 3</td>
<td>Fld Ebb Slk-H Slk-L NV</td>
<td>10.3</td>
<td>10.3 @ 20.78°C</td>
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---

### Salinity (psu)

- 33.11
- 33.15
- 33.31
- 33.04
- 33.07
- 33.30

### Temperature (°C)

- 18.93
- 19.77
- 17.38
- 19.80
- 19.79
- 17.20

### pH (su)

- 8.08
- 8.09
- 8.11
- 8.08
- 8.09
- 8.10

### Specific Conductance (mS/cm)

- 50.36
- 50.47
- 50.69
- 50.28
- 50.30
- 50.69

### DO (mg/L)

- 7.66
- 7.73
- 7.97
- 7.67
- 7.91
- 7.81

### % Sat DO

- 162.1
- 102.5
- 100.3
- 102.7
- 104.6
- 99.3

---

### WQ Sample Contin (A,B,D,H)

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<th>Depth:</th>
<th>Method:</th>
<th>Niskin</th>
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### Secchi Depth (M)

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<td>Custom</td>
<td>N</td>
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---

### In Situ Light Measurement (STORE 3) (µE/M²/SEC)

- UPPER @ >0.2M : 1187
- LOWER : 640.3
- UPPER @ >0.2M : 1099
- LOWER : 930.8

---

### Shoreline Description

- Beach / Boat Basin / Commercial / Docks / Island / Marina / Mangrove / Open Bay / Sea Wall / Residential (Low / Medium / Dense) / Rip Rap / Vegetation

### Bottom Type

- Mud Sand Grass (NV)

---

### Description of Station Location

- Open Bay
- North Finding Bridge
- SE of Harborside Moorings
- May have stored 2

---

### Comments

- May have stored 1
- US-1

---

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---

Page 2 of 8
**FIELD CONDITIONS**

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<thead>
<tr>
<th>CLOUD PERCENT</th>
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<th>E</th>
<th>S</th>
<th>N</th>
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<th>D.O. AIR CAL (% SAT)</th>
<th>98.5</th>
<th>98.9</th>
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<tr>
<td>@21.73 °C</td>
<td>@22.10 °C</td>
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<tr>
<th>HYDROLAB MEASMT (0.5&quot;)</th>
<th>0.2M</th>
<th>1M/MID</th>
<th>B-0.2M</th>
<th>0.2M</th>
<th>1M/MID</th>
<th>B-0.2M</th>
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<td>TEMP (O)</td>
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<td>20.01</td>
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<td>PH (SU)</td>
<td>8.12</td>
<td>8.11</td>
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<td>50.43</td>
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<td>DO (mg/L)</td>
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<td>% SAT DO</td>
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<th>JC</th>
<th>JC</th>
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<tr>
<td>UPPER @ &gt;0.2M</td>
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<td>1261</td>
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<td>LOWER</td>
<td>908.4</td>
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<table>
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<tr>
<th>SHORELINE DESCRIPTION</th>
<th>BEACH / BOAT BASIN / COMMERCIAL / DOCKS / ISLAND / MARINA / MANGROVE / OPEN BAY / SEA WALL / RESIDENTIAL LOW / MEDIUM / DENSE / RIP RAP / VEGETATION</th>
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<tr>
<td>COMMENTS</td>
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<td>0 5 10 15 20</td>
<td>0 5 10 15 20</td>
</tr>
<tr>
<td>WAVE HEIGHT (FT)</td>
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<td>0 0.5 1 2 3</td>
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<tr>
<td>RELATIVE TIDAL STAGE</td>
<td>Ebb Slt-H Slt-L</td>
<td>Ebb Slt-H Slt-L</td>
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<tr>
<td>WATER DEPTH (FT)</td>
<td>8.8</td>
<td>9.1</td>
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<tr>
<td>D.O. AIR CAL (% SAT)</td>
<td>98.5 @ 21.79 °C</td>
<td>98.3 @ 21.71 °C</td>
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<tr>
<td>HYDROLAB MEASMT (6.5°)</td>
<td>0.2M</td>
<td>0.2M</td>
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<tr>
<td>SALT INITY (PSU)</td>
<td>33.03 33.01 33.23</td>
<td>33.03 33.04 33.10</td>
</tr>
<tr>
<td>TEMP (°C)</td>
<td>19.57 19.52 17.85</td>
<td>19.86 19.94 19.24</td>
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<tr>
<td>pH</td>
<td>8.10 8.10 8.13</td>
<td>8.10 8.11 8.10</td>
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<td>SPEC COND (MS/CM)</td>
<td>50.21 50.42 50.57</td>
<td>50.31 50.28 50.39</td>
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<tr>
<td>DO (mg/L)</td>
<td>3.71 7.78 7.93</td>
<td>3.70 7.85 7.85</td>
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<td>% SAT DO</td>
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<tr>
<td>WQ SAMPLE CONTN (A,B,D,H)</td>
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<td>DEPTH: 1M MID METHOD: NISKIN</td>
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<td>SECCHI DEPTH (M)</td>
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<tr>
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<td>BEACH / BOAT BASIN / COMMERCIAL / DOCKS / ISLAND / MARINA / MANGROVE / OPEN BAY / SEA WALL / RESIDENTIAL (LOW / MEDIUM / DENSE) / RIP RAP / VEGETATION</td>
<td>BEACH / BOAT BASIN / COMMERCIAL / DOCKS / ISLAND / MARINA / MANGROVE / OPEN BAY (SEA WALL / RESIDENTIAL (LOW / MEDIUM / DENSE) / RIP RAP / VEGETATION</td>
</tr>
<tr>
<td>BOTTOM TYPE</td>
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<td>MUD SAND GRASS (NV)</td>
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<tr>
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<tr>
<td>COMMENTS:</td>
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### Field Conditions

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<td><strong>Cloud Percent</strong></td>
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<td>60</td>
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<tr>
<td><strong>Wind Dir (from Deg/M)</strong></td>
<td>150</td>
<td>210</td>
</tr>
<tr>
<td><strong>Wind Velocity (MPH)</strong></td>
<td>0 5 10 15 20</td>
<td>0 5 10 15 20</td>
</tr>
<tr>
<td><strong>Wave Height (FT)</strong></td>
<td>0 0.5 1 2 3</td>
<td>0 0.5 1 2 3</td>
</tr>
<tr>
<td><strong>Relative Tidal Stage</strong></td>
<td>Fld Ebb Slk-H Slk-L (NV)</td>
<td>Fld Ebb Slk-H Slk-L (NV)</td>
</tr>
<tr>
<td><strong>Water Depth (FT)</strong></td>
<td>10.3</td>
<td>10.8</td>
</tr>
<tr>
<td><strong>D.O. Air Cal (% Sat)</strong></td>
<td>98.4 @ 21.53 °C</td>
<td>98.9 @ 21.3 °C</td>
</tr>
<tr>
<td><strong>Hydrolab Measnt (6.5)</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Salinity (ptu)</strong></td>
<td>32.76 33.01 33.21</td>
<td>33.09 33.06 33.08</td>
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<tr>
<td><strong>Temp (°C)</strong></td>
<td>19.69 19.31 17.99</td>
<td>19.12 19.05 18.97</td>
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<td><strong>pH (SU)</strong></td>
<td>8.06 8.07 8.07</td>
<td>8.06 8.09 8.09</td>
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<td><strong>Spec Cond (mS/cm)</strong></td>
<td>50.26 50.26 50.54</td>
<td>50.35 50.37 50.37</td>
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<td><strong>DO (mg/L)</strong></td>
<td>7.49 7.59 7.23</td>
<td>7.78 7.84 7.78</td>
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<tr>
<td><strong>% Sat DO</strong></td>
<td>100.3 100.3 93.3</td>
<td>103.0 102.5 102.2</td>
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<tr>
<td><strong>WQ Sample Contin (A,B.D.H]</strong></td>
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<tr>
<td><strong>Secchi Depth (M)</strong></td>
<td></td>
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<tr>
<td><strong>In Situ Light Measnt (Store 3) (µE/m²/sec)</strong></td>
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<tr>
<td><strong>Shoreline Description</strong></td>
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<tr>
<td><strong>Bottom Type</strong></td>
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<td>Mud Sand Grass (NV)</td>
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<tr>
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<td><strong>Comments:</strong></td>
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**Physical/Chemical Characterization Field Sheet - SB Monitoring**

**Project # 112-307**

**Date** 02.04.14

**Samplers (Initials)** GC GC

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<th>STA</th>
<th>TIME</th>
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<th>EST</th>
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**LAT**

82.35592

82.52319

**LON**

58.25691

58.54920

**FIELD CONDITIONS**

| CLOUD PERCENT | 50 | 210 |
| WIND DIR (from DegM) | 50 | 210 |
| WIND VELOCITY (MPH) | 180 | |
| WAVE HEIGHT (FT) | 210 | |
| RELATIVE TIDAL STAGE | Fld Ebb Sik-H Sik-L (NV) | Fld Ebb Sik-H Sik-L (NV) |
| WATER DEPTH (FT) | 8.5 | 5.6 |
| D.O. AIR CAL (% SAT) | 8.5 | 5.6 |

**HYDROLAB MEASMT (6.5')**

| TEMP (°C) | 19.66 | 19.59 | 19.49 | 19.50 | 19.48 | 19.48 |
| PH (SU) | 8.06 | 8.06 | 8.07 | 8.07 | 8.07 | 8.07 |
| SPEC COND (MS/CM) | 50.09 | 50.07 | 50.16 | 50.16 | 50.17 | 50.19 |
| DO (mg/L) | 7.53 | 7.63 | 7.61 | 7.58 | 7.65 | 7.69 |
| % SAT DO | 101.3 | 102.4 | 100.5 | 101.2 | 101.9 | 101.1 |
| WQ SAMPLE CONTN (A,B,D,H) | CG | CG |

**DEPTH (1M) MID METHOD: NISKIN**

| 0.2M | 0.2M |
| 0.1M/MID | 0.1M/MID |
| B-0.2M | B-0.2M |

**SEACCHI DEPTH (M)**

| 0.2M | 0.2M |

**IN SITU LIGHT MEASMT (STORE 3) (µE/m²/sec)**

| 1002 | 1051 |

**SHORELINE DESCRIPTION**

BEACH / BOAT BASIN / COMMERCIAL / DOCKS / ISLAND / MARINA / MANGROVE / OPEN BAY / SEA WALL / RESIDENTIAL (LOW / MEDIUM / DENSE) / RIP RAP / VEGETATION /

**BOTTOM TYPE**

MUD / SAND GRASS (NV)

**DESCRIPTION OF STATION LOCATION**

NaM Br Lingl Bridge Neer Sailboats by Downton

**COMMENTS:**

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<th>FIELD CONDITIONS</th>
<th>INT</th>
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<tbody>
<tr>
<td>CLOUD PERCent</td>
<td>40</td>
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</tr>
<tr>
<td>WIND DIR (from DegM)</td>
<td>180</td>
<td>210</td>
</tr>
<tr>
<td>WIND VELOCITY (MPH)</td>
<td>0 5 10 15 20</td>
<td>0 5 10 15 20</td>
</tr>
<tr>
<td>WAVE HEIGHT (FT)</td>
<td>0 0.5 1 2 3</td>
<td>0 0.5 1 2 3</td>
</tr>
<tr>
<td>RELATIVE TIDAL STAGE</td>
<td>Fid Ebb Silk-H Silk-L SV</td>
<td>Fid Ebb Silk-H Silk-L SV</td>
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<tr>
<td>WATER DEPTH (FT)</td>
<td>JC 8.5</td>
<td>JC 9.3</td>
</tr>
<tr>
<td>D.O. AIR CAL (% SAT)</td>
<td>98.9 @ 21.91°C</td>
<td>98.5 @ 23.08°C</td>
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<tr>
<td>HYDROLAB MEASMT (6.5)</td>
<td>0.2M HM/MID B-0.2M</td>
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<tr>
<td>SALINITY (PST)</td>
<td>32.13 32.16 33.04</td>
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<tr>
<td>TEMP (°)</td>
<td>21.08 20.56 19.33</td>
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<tr>
<td>PH (SU)</td>
<td>7.99 8.01 8.08</td>
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<tr>
<td>SPEC COND (mg/L)</td>
<td>49.10 49.18 50.31</td>
<td></td>
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<tr>
<td>DO (mg/L)</td>
<td>7.06 7.06 7.59</td>
<td></td>
</tr>
<tr>
<td>% SAT DO</td>
<td>95.7 95.6 100.6</td>
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<tr>
<td>WQ SAMPLE CONTN (A,B,D,H)</td>
<td>Depth: (IN) MID Method: NISKIN</td>
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<tr>
<td>SECCHI DEPTH (M)</td>
<td>JC DN 2.50 Up: 2.40 MEAN 2.45</td>
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<tr>
<td>IN-SITU LIGHT MEASMT</td>
<td>JC UPPER @ &gt;0.2M 1099</td>
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<tr>
<td>(STORE 3) (µE/M²/SEC)</td>
<td>LOWER 704.4</td>
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<td>LB</td>
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<td>82.56445</td>
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<tr>
<td>CLOUD PERCENT</td>
</tr>
<tr>
<td>WIND DIR (from DegM)</td>
</tr>
<tr>
<td>WIND VELOCITY (MPH)</td>
</tr>
<tr>
<td>WAVE HEIGHT (FT)</td>
</tr>
<tr>
<td>RELATIVE TIDAL STAGE</td>
</tr>
<tr>
<td>WATER DEPTH (FT)</td>
</tr>
<tr>
<td>D.O. AIR CAL (% SAT)</td>
</tr>
<tr>
<td>HYDROLAB MEASMT (0.5)</td>
</tr>
<tr>
<td>SALINITY (PSU)</td>
</tr>
<tr>
<td>TEMP (°C)</td>
</tr>
<tr>
<td>pH (SU)</td>
</tr>
<tr>
<td>SPEC COND (MS/CM)</td>
</tr>
<tr>
<td>DO (mg/L)</td>
</tr>
<tr>
<td>% SAT DO</td>
</tr>
<tr>
<td>WQ SAMPLE CONTN (A,B,D,H)</td>
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<tr>
<td>IN SITU LIGHT MEASMT (STORE 3) (µE/M²/Sec)</td>
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<tr>
<td>SECCHI DEPTH (M)</td>
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<tr>
<td>SHORELINE DESCRIPTION</td>
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<tr>
<td>BOTTOM TYPE</td>
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<tr>
<td>DESCRIPTION OF STATION LOCATION</td>
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<td>COMMENTS</td>
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FIELD WORK LOG: Sarasota Bay Monitoring

Date: 2.4.14

Segments

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<th>LB</th>
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Equipment Information

<table>
<thead>
<tr>
<th>Instrument</th>
<th>Model #</th>
<th>Serial #</th>
<th>Licor Analyst</th>
<th>Cal time (EST)</th>
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<tbody>
<tr>
<td>Hydrolab Surveyor</td>
<td>4 / 4a</td>
<td>51812</td>
<td></td>
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<tr>
<td>Hydrolab MiniSonde</td>
<td>4 / 4a</td>
<td>38828</td>
<td></td>
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<tr>
<td>Licor Data Logger</td>
<td>LI-1000</td>
<td>4698</td>
<td></td>
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<tr>
<td>Licor Upper Sensor</td>
<td>LI-192SA</td>
<td>8259</td>
<td></td>
<td></td>
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<tr>
<td>Licor Lower Sensor</td>
<td>LI-192SA</td>
<td>8260</td>
<td></td>
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<tr>
<td>GPS</td>
<td></td>
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General Field Conditions: Switched to Surveyor 50692 after 16:5, no connection was not good on 51812 cc.

Analyst: Chornig (Pre), Chornig (Post)

<table>
<thead>
<tr>
<th></th>
<th>0.5 KCl</th>
<th>0.1 KCl</th>
<th>pH 7.00</th>
<th>pH 10.00</th>
<th>% Sat DO</th>
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<tbody>
<tr>
<td>Limits</td>
<td>55.708-61.572 ms/cm*</td>
<td>12.255-13.545 ms/cm*</td>
<td>6.8-7.2 SU</td>
<td>9.8-10.2 SU</td>
<td>96-104 %</td>
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<tr>
<td>Lot #</td>
<td>1.2314#2</td>
<td>11.2013#1</td>
<td>2305.821</td>
<td>2305.821</td>
<td>2.3-1.14</td>
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<tr>
<td>Exp Date</td>
<td>7.23.14</td>
<td>5.20.14</td>
<td>5.31.15</td>
<td>9.30.14</td>
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<tr>
<td>Value -Pre</td>
<td>58.70</td>
<td>12.89</td>
<td>683&gt;7.00</td>
<td>10.01</td>
<td><a href="mailto:10.12@72.8C">10.12@72.8C</a></td>
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<tr>
<td>Time -Pre (EST)</td>
<td>0851</td>
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<td>0854</td>
<td>0854</td>
<td>0854</td>
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<tr>
<td>Value (Post)</td>
<td>58.31</td>
<td>12.87</td>
<td>7.05</td>
<td>10.14</td>
<td><a href="mailto:98.6@25.8C">98.6@25.8C</a></td>
</tr>
<tr>
<td>Time -Post (EST)</td>
<td>1431</td>
<td>1431</td>
<td>1432</td>
<td>1432</td>
<td>1433</td>
</tr>
</tbody>
</table>

*: If Conductivity is off, repeat -DO NOT calibrate.
**: If pH / % Saturation of DO is off, calibrate.

RECORD ANY CHANGES TO BACK UP INSTRUMENTS IN LOG COMMENTS!
RECORD STATION TIMES FROM HYDROLAB AT FIRST READING!
<table>
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<tr>
<th>SEGMENT</th>
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<th>STA</th>
<th>TIME</th>
<th>LAT</th>
<th>LON</th>
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<tbody>
<tr>
<td>11</td>
<td>13</td>
<td>14</td>
<td>16</td>
<td>1025</td>
<td>27.1333S</td>
<td>82.46900</td>
</tr>
<tr>
<td>DR</td>
<td>LB</td>
<td>MR</td>
<td></td>
<td></td>
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<table>
<thead>
<tr>
<th>FIELD CONDITIONS</th>
<th>INT</th>
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<tbody>
<tr>
<td>CLOUD PERCENT</td>
<td>5</td>
<td>5</td>
<td>7</td>
<td>6</td>
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<tr>
<td>WIND DIR (from DegM)</td>
<td>90</td>
<td></td>
<td>140</td>
<td></td>
</tr>
<tr>
<td>WIND VELOCITY (MPH)</td>
<td>0</td>
<td>5</td>
<td>0</td>
<td>5</td>
</tr>
<tr>
<td>WAVE HEIGHT (FT)</td>
<td>0.5</td>
<td>1</td>
<td>2</td>
<td>3</td>
</tr>
<tr>
<td>RELATIVE TIDAL STAGE</td>
<td>Fld Ebb Skl-H Skl-L (NV)</td>
<td>Fld Ebb Skl-H Skl-L (NV)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>WATER DEPTH (FT)</td>
<td>5.5</td>
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<td>4.9</td>
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<tr>
<td>D.O. AIR CAL (% SAT)</td>
<td>103.1</td>
<td>@ 22.25 °C</td>
<td>96.8</td>
<td>@ 21.24 °C</td>
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<tr>
<td>HYDROLAB MEASNT (6 S)</td>
<td>0.2M</td>
<td>0.2M</td>
<td>0.2M</td>
<td>0.2M</td>
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<tr>
<td>SALINITY (pS/m)</td>
<td>33.36</td>
<td>33.36</td>
<td>33.38</td>
<td>33.31</td>
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<td>TEMP (°C)</td>
<td>20.06</td>
<td>19.92</td>
<td>19.87</td>
<td>20.33</td>
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<tr>
<td>PH (SU)</td>
<td>7.87</td>
<td>7.86</td>
<td>7.95</td>
<td>8.05</td>
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<td>SPEC COND (μS/CM)</td>
<td>50.56</td>
<td>50.57</td>
<td>50.60</td>
<td>50.28</td>
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<td>DO (mg/L)</td>
<td>7.03</td>
<td>6.92</td>
<td>6.93</td>
<td>7.22</td>
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<td>% SAT DO</td>
<td>94.4</td>
<td>93.1</td>
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<td>92.1</td>
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<tr>
<th>WQ SAMPLE CONTN (A,B,D,H)</th>
<th>DEPTH</th>
<th>METHOD</th>
<th>DEPTH</th>
<th>METHOD</th>
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<tr>
<td></td>
<td>0.2M</td>
<td>NISKIN</td>
<td>0.2M</td>
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<table>
<thead>
<tr>
<th>SECCHI DEPTH (m)</th>
<th>65</th>
<th>Dn : DB Up : Mean</th>
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<tr>
<td>IN SITU LIGHT MEASMT (STORE 3) (μE/M²/SEC)</td>
<td>UPPER @ &gt; 0.2M</td>
<td>LOWER</td>
</tr>
<tr>
<td></td>
<td>82.6</td>
<td>867.2</td>
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<tr>
<th>BOTTOM TYPE</th>
<th>DESCRIPTION OF STATION LOCATION</th>
<th>COMMENTS</th>
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<tbody>
<tr>
<td>MUD / SAND / GRASS NV</td>
<td>NE O MARKER</td>
<td>SUN INOUT CLOUDS</td>
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<tr>
<td>SEGMENT:</td>
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<td>13</td>
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**FIELD CONDITIONS**

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<th>WIND VELOCITY (MPH)</th>
<th>WAVE HEIGHT (FT)</th>
<th>RELATIVE TIDAL STAGE</th>
<th>WATER DEPTH (FT)</th>
<th>D.O. AIR CAL (% SAT)</th>
<th>HYDROLAB MEASMT (6.5')</th>
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<tbody>
<tr>
<td>90</td>
<td>0</td>
<td>10</td>
<td>12</td>
<td>Ebb</td>
<td>6.6</td>
<td>97.5% @ 22.4°C</td>
<td>0.2M</td>
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<td>90</td>
<td>0</td>
<td>10</td>
<td>12</td>
<td>Ebb</td>
<td>6.6</td>
<td>97.4% @ 22.8°C</td>
<td>0.2M</td>
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<tr>
<td>0.2M</td>
<td>0.2M</td>
<td>0.2M</td>
<td>0.2M</td>
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<td>0.2M</td>
<td>0.2M</td>
<td>0.2M</td>
<td>0.2M</td>
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**IN SITU LIGHT MEASMT (STORE 3) (µE/M²/S)MM**

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<th>BOTTOM TYPE</th>
<th>DESCRIPTION OF STATION LOCATION</th>
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<tr>
<td>BEACH / BOAT BASIN / COMMERCIAL / DOCKS / ISLAND / MARINA / MANGROVE / OPEN BAY / SEA WALL / RESIDENTIAL (LOW / MEDIUM / DENSE) / RIP RAP / VEGETATION /</td>
<td>Mud Sand Grass (NY)</td>
<td>Sun of Maken 21</td>
<td>Sun Behind clouds for Aigor</td>
</tr>
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### MOTE MARINE LABORATORY, 1600 Ken Thompson Parkway, Sarasota, FL 34236 (941) 388-4441 Page 2 of 8

Physical/Chemical Characterization Field Sheet - SB Monitoring

Project # 112-307

**Date:** 2.4.14

**Samplers (Initials):** CC GB SS ( ),

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<tr>
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<tbody>
<tr>
<td>DR</td>
<td>LB</td>
<td>MR</td>
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<table>
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### FIELD CONDITIONS

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<tr>
<td>WAVE HEIGHT (FT)</td>
<td>0.5</td>
<td>1</td>
</tr>
<tr>
<td>RELATIVE TIDAL STAGE</td>
<td>Fld Ebb Slk-H Slk-L NV</td>
<td></td>
</tr>
<tr>
<td>WATER DEPTH (FT)</td>
<td>3.3</td>
<td></td>
</tr>
<tr>
<td>D.O. AIR CAL (% SAT)</td>
<td>94.9 @ 24.05 °C</td>
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<table>
<thead>
<tr>
<th>HYDROLAB MEASMT (65°)</th>
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<th>IM/MID</th>
<th>B-0.2M</th>
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<td>32.35</td>
<td>32.40</td>
<td>32.42</td>
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<td>TEMP (°C)</td>
<td>21.70</td>
<td>21.63</td>
<td>21.61</td>
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<td>pH (SU)</td>
<td>8.03</td>
<td>8.06</td>
<td>8.06</td>
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<tr>
<td>SPEC COND (MS/CM)</td>
<td>49.29</td>
<td>49.38</td>
<td>49.37</td>
</tr>
<tr>
<td>DO (MG/L)</td>
<td>8.04</td>
<td>7.93</td>
<td>8.01</td>
</tr>
<tr>
<td>% SAT DO</td>
<td>110.7</td>
<td>109.7</td>
<td>110.6</td>
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<td>Depth: 1M/MID Method: NISKIN</td>
<td># DORI</td>
</tr>
<tr>
<td>Secchi Depth (M)</td>
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<td>In situ Light Measmt (Store 3) (µE/M²/Sec)</td>
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| Bottom Type | Mud Sand Grass NV |

**COMMENTS:**

F:\CHEMLAB\FORMS\Log-sb-307 .doc, Date: June 7, 2010
### Field Conditions

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<td><strong>Cloud Percent</strong></td>
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<td>CC</td>
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<tr>
<td><strong>Wind Dir (from DegM)</strong></td>
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<td>200</td>
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</tr>
<tr>
<td><strong>Wind Velocity (MPH)</strong></td>
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<td>0 (30) 10 15 20</td>
<td></td>
</tr>
<tr>
<td><strong>Wave Height (FT)</strong></td>
<td></td>
<td>0.5 1 2 3</td>
<td></td>
</tr>
<tr>
<td><strong>Relative Tidal Stage</strong></td>
<td></td>
<td>Fld Ebb Slk-H Slk-L [NV]</td>
<td></td>
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<tr>
<td><strong>Water Depth (FT)</strong></td>
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<td>4.4</td>
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</tr>
<tr>
<td><strong>D.O. Air Cal (% Sat)</strong></td>
<td></td>
<td>97.5 @ 23.12 °C</td>
<td></td>
</tr>
<tr>
<td><strong>Hydrolab Measmt (0.5)</strong></td>
<td></td>
<td>0.2M IM/MID B-0.2M</td>
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</tr>
<tr>
<td><strong>Salinity (PSU)</strong></td>
<td></td>
<td>31.80 31.86 31.86</td>
<td></td>
</tr>
<tr>
<td><strong>Temp (°C)</strong></td>
<td></td>
<td>21.73 21.72 22.66</td>
<td></td>
</tr>
<tr>
<td><strong>pH (SU)</strong></td>
<td></td>
<td>8.07 8.07 8.06</td>
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<tr>
<td><strong>Spec Cond (MS/CM)</strong></td>
<td></td>
<td>48.49 48.57 48.63</td>
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<tr>
<td><strong>DO (mg/L)</strong></td>
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<td>8.05 8.21 8.36</td>
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<tr>
<td><strong>% Sat DO</strong></td>
<td></td>
<td>123.1 117.2 115.9</td>
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<td><strong>Secchi Depth (M)</strong></td>
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<td><strong>In/Situ Light Measmt (Store 3) (µE/M²/Sec)</strong></td>
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<td><strong>Bottom Type</strong></td>
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<td>0 0.5 1 2 3</td>
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<tr>
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<td>Fld Ebb Silk-H Silk-L NV</td>
<td>Fld Ebb Silk-H Silk-L NV</td>
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<td>C @ 23.16°C</td>
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<td>#0094</td>
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<td>55 Dn: UP: Mean</td>
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<td>UPPER @ &gt; 0.2M 1008</td>
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<td>SE of Marker 51</td>
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COMMENTS:

F:\CHEMLAB\FORMS\Log-sb-307.doc, Date: June 7, 2010
**FIELD CONDITIONS**

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<td>MID</td>
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<td>BOTTOM TYPE</td>
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<td>MR</td>
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**FIELD CONDITIONS**

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<th>WAVE HEIGHT (FT)</th>
<th>RELATIVE TIDAL STAGE</th>
<th>WATER DEPTH (FT)</th>
<th>D.O. AIR CAL (% SAT)</th>
<th>HYDROLAB MEASMT (6.5')</th>
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<tbody>
<tr>
<td>5</td>
<td>250</td>
<td>0 5 10 (15) 20</td>
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<td>97.4 @ 23.39 °C</td>
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<td></td>
<td>280</td>
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<td>97.2 @ 24.06 °C</td>
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**SALINITY (PSU)**

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<th>SPEC COND (MS/CM)</th>
<th>DO (MG/L)</th>
<th>% SAT DO</th>
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<tr>
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<td>104.5</td>
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<td>22.34</td>
<td>7.98</td>
<td>47.33</td>
<td>7.48</td>
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**WQ SAMPLE CONTN (A,B,D,H)**

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<td>30.99</td>
<td>31.08</td>
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<td>31.55</td>
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<td>20.91</td>
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<td>1M / MID</td>
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<td>20.91</td>
<td>20.39</td>
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**SECCHI DEPTH (M)**

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**IN SITU LIGHT MEASMT (STORE 3) (µE/M²/Sec)**

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<th>UPPER @ 0.2M</th>
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<tr>
<td></td>
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**SHORELINE DESCRIPTION**

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**BOTTOM TYPE**

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**DESCRIPTION OF STATION LOCATION**

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**COMMENTS:**

@ Maken 4 NE (Ch) and @ Maken 67 NE (Ch)
### MOTE MARINE LABORATORY, 1600 Ken Thompson Parkway, Sarasota, FL 34236 (941) 388-4441

**Physical/Chemical Characterization Field Sheet - SB Monitoring**

**Date:** 2-4-14

**Samplers (Initials):** CR, GB, MS, ( ), ( ), ( ), ( )

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<tr>
<td>WAVE HEIGHT (FT)</td>
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<td>96.9 @ 23.29 °C</td>
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FA:CHEMLAB\FORMS\Log-sb-307 .doc, Date: June 7, 2010
MOT MINE LARATORY,
1600 Ken Thompson Parkway, Sarasota, FL 34236. Tel: (941) 388-4441

FIELD WORK LOG: Sarasota Bay Monitoring

Date: 02-04-14

Samplers Name (Initials) S. Launay (SL), A. Marshall (AH)

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<td><strong>Serial #</strong></td>
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| Analyst: S. Launay (Pre), S. Launay (Post) |

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*: If Conductivity is off, repeat -DO NOT calibrate.
♦: If pH / % Saturation of DO is off, calibrate.

RECORD ANY CHANGES TO BACK UP INSTRUMENTS IN LOG COMMENTS!
RECORD STATION TIMES FROM HYDROLAB AT FIRST READING!


Data collected with 38616 4/2-4/14 because pH networking properly on 3/3887
**MOTe Marine Laboratory, 1600 Ken Thompson Parkway, Sarasota, FL 34236 (941) 388-4441**  
**Physical/Chemical Characterization Field Sheet - SB Monitoring**  
Project # 112-307

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**MOTE MARINE LABORATORY**, 1600 Ken Thompson Parkway, Sarasota, FL 34236 (941) 388-4441

**Page 3 of**

**Physical/Chemical Characterization Field Sheet - SB Monitoring**

**Date** __02-21-14__  
**Samplers (Initials)** __SL__, __AH__, ____

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<th>SALINITY (PSU)</th>
<th>TEMP (°C)</th>
<th>PH (mEq/L)</th>
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**SECCHI DEPTH (M)**

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**IN SITU LIGHT MEASMT (STORE 3) (µm/m²/Sec)**

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<th>UPPER @ &gt;0.2M</th>
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**SHORELINE DESCRIPTION**

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<th>Beach/Boat Basin/Commercial/ Docks/Island/Marina/Mangrove/ Open Bay/Sea Wall/Residential (Low/Medium/Dense/Rip Rap/ Vegetation)</th>
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**BOTTOM TYPE**

- Mud Sand Grass NV

**DESCRIPTION OF STATION LOCATION**

- Nofmarker S1

**COMMENTS:**

- mud on anchor

---

F:CHEMLAB\FORMS\Log-sb-307 .doc, Date: June 7, 2010
**MOTE MARINE LABORATORY**, 1600 Ken Thompson Parkway, Sarasota, FL 34236 (941) 388-4444  Page 4 of 5

**Physical/Chemical Characterization Field Sheet - SB Monitoring**

**Project # 112-307**

**Date:** 02-04-14  
**Samplers (Initials):** (Sl.), (Ah.), ( )

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<td>13</td>
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| LAT | 27.710566 |
| LON | 82.44783 |

| LAT | 27.11460 |
| LON | 82.46109 |

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<td>65 1 2 3</td>
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<td>Fld Ebb Slk-H Slk-L</td>
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<td>97.9 @ 24.6°C</td>
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<td>DO (mg/L)</td>
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| BOTTOM TYPE | MUD SAND GRASS NV | MUD SAND GRASS NV |
| DESCRIPTION OF STATION LOCATION | M herself marker S | E of marker 1 for small channel |
| COMMENTS: | mud anchor | water is crystal clear |

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MML_Chemical Ecology_140221_1 40 of 41
**MOBILE MARINE LABORATORY**, 1600 Ken Thompson Parkway, Sarasota, FL 34236 (941) 388-4441

**Physical/Chemical Characterization Field Sheet - SB Monitoring**

**Project # 112-307**

**Date**: 07-Oct-14

### Samplers (Initials)

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### Field Conditions

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<th>WAVE HEIGHT (FT)</th>
<th>RELATIVE TIDAL STAGE</th>
<th>WATER DEPTH (FT)</th>
<th>D.O. AIR CAL (% SAT)</th>
<th>HYDROLAB MEASMT (6.5)</th>
<th>SALINITY (PSU)</th>
<th>TEMP (°C)</th>
<th>pH (SU)</th>
<th>SPEC COND (ASS/CM)</th>
<th>DO (mg/L)</th>
<th>% SAT DO</th>
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<th>DEPTH:</th>
<th>METHOD:</th>
<th>NISKIN</th>
<th>SECCHI DEPTH (M)</th>
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<th>SHORELINE DESCRIPTION</th>
<th>BOTTOM TYPE</th>
<th>DESCRIPTION OF STATION LOCATION</th>
<th>COMMENTS</th>
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| SL            | 30                   | 210                  | 0 10 15 20       | Fld Ebb Silk-H Silk-L | AH               | 97.3 @ 24.72 °C    | 0.2M 0.2M 0.2M 0.2M 0.2M 0.2M | 31.15 31.15 31.20 | 22.09 22.02 21.87 | 7.72 7.72 7.72 7.72 | 47.74 47.72 47.82 | 6.66 6.73 6.82 |         |       |         |         |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |      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|       |       |       |       | June 7, 2010
April 1, 2014

Ms. Kathryn L. Meaux
Sarasota County Water Resources
1001 Sarasota Center Blvd.
Sarasota, FL. 34240

Dear Ms. Meaux,

Enclosed are the data tables, field and custody records from the March 2014 sampling of Sarasota Bay that Mote Marine Laboratory (MML) performed for Sarasota County. The magnetic data are enclosed as an Excel 11.8 file (SBMN0314.XLS). Data are organized as nine tables with descriptions which follow.

- Transmittal letter and cover page: 1 page
- Mid-Day in situ profiles: 4 pages
- Station locations and water clarity: 2 pages
- Water quality analyses: 6 pages
- Weather conditions during samplings: 1 page
- Custody sheets for water quality samples: 3 pages
- Field Work Logs for Segments US, 10 and 11: 9 pages
- Field Work Logs for Segments 13, 14 and 16: 9 pages
- Field Work Logs for segments DR and LB: 6 pages

Total (including this letter): 41 pages

All portions of these water quality analyses were satisfactory.

All the test results for water quality analysis in this report meet the NELAC standards with the exception of Karenia brevis cell counts, and field measurements which are not included under certifiable analytes under Non-Potable Water (NPW) – NELAC, but are analyzed under MML’s approved Quality Plan.

These data will be transmitted with in 10 days from this report to Mr. Dan Dye for incorporation into the Sarasota County Water Atlas.

Please don’t hesitate to call if I may answer any questions regarding this report.

Sincerely,

Ari Nissanka

A NONPROFIT ORGANIZATION DEDICATED TO ADVANCING THE SCIENCE OF THE SEA AND A MEMBER OF:
Sarasota Bay Status and Trends Monitoring
Mid-Day *In Situ* Profiles

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<thead>
<tr>
<th>Station</th>
<th>Date</th>
<th>Time</th>
<th>Sample Depth</th>
<th>Salinity (PSU)</th>
<th>Specific Conductance (mmhos/cm)</th>
<th>Temperature (Deg C)</th>
<th>pH</th>
<th>Dissolved Oxygen (mg/l)</th>
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## Sarasota Bay Status and Trends Monitoring
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## Sarasota Bay Status and Trends Monitoring

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-9* = No data due to instrument malfunction
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Water Quality Analyses - Summary Report

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I = Value is greater than or equal to MDL but less than the Practical Quantitation Limit (PQL)
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## Sarasota Bay Status and Trends Monitoring

### Water Quality Analyses - Summary Report

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## Sarasota Bay Status and Trends Monitoring
### Water Quality Analyses - Summary Report

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# Sarasota Bay Status and Trends Monitoring

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U = Less than Method Detection Limit (MDL)

I = Value is greater than or equal to MDL but less than the Practical Quantitation Limit (PQL)
## Sarasota Bay Status and Trends Monitoring
### Weather Conditions during Samplings

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Matrix: Est/ Marine, Surface Water, 1.30

CONTAINER COUNT, THIS PAGE ONLY 84

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DATE/TIME: 03.04.14
COUNT VERIFIED: [Signature]

RELINQUISHED BY: [Signature]
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DATE/TIME: 3.4.14 1615
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Ice Present: ✔
Temperature Blank: 60 °C
Containers verified 100%
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ANALYSES:
- A: NH₃, N, NO₃, N, TKN, TOTP
- B: PO₄, P
- C: Fe, BOD₅, Color, Turb
- D: Cell Counts (K. brevis)
- H: Chl-a (Fluoro)

Matrix: Est/Marine, Surface Water, CONTAINER COUNT, THIS PAGE ONLY

RELIQUISHED BY: [Signature]
RELIQUISHED BY: [Signature]
RECEIVED BY: [Signature]
RECEIVED BY: [Signature]
DATE/TIME: 3/4/14 1542
DATE/TIME: 03/04/14 1542
COUNT VERIFIED: ✓
COUNT VERIFIED: ✓

Ice Present: ✓
Temperature Blank: 5.0 °C
Containers verified 100% ✓
FIELD WORK LOG: Sarasota Bay Monitoring

Date: 3/4/14

Samplers Name (Initials): A. Housh (AH), J. Shapiro (JS), J. Stavros (JS), C. Gu (CG)

Segments

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<th>US</th>
<th>10</th>
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Equipment Information

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<tr>
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<th>Serial #</th>
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<th>Cal time (EST)</th>
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General Field Conditions: OVERCAST, 70F, LIGHT WIND, E

Analyst: J. Shapiro (Pre), J. Shapiro (Post)

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<th>0.5 KCl</th>
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<th>pH 10.00</th>
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<td>55.708-61.572 ms/cm*</td>
<td>12.255-13.545 ms/cm*</td>
<td>6.8-7.2 SU</td>
<td>9.8-10.2 SU</td>
<td>96-104 %</td>
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<td>Lot #</td>
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<td>99.3 @23°C</td>
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<td>1503</td>
<td>1504</td>
<td>1305</td>
<td>1506</td>
<td>1507</td>
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*: If Conductivity is off, repeat -DO NOT calibrate.
◆: If pH / % Saturation of DO is off, calibrate.

- RECORD ANY CHANGES TO BACK UP INSTRUMENTS IN LOG COMMENTS!
- RECORD STATION TIMES FROM HYDROLAB AT FIRST READING!
### Field Conditions

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<td>J5</td>
<td>100</td>
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<td>Wind Velocity (MPH)</td>
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<td>Wave Height (FT)</td>
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<td>J5</td>
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<td>Relative Tidal Stage</td>
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<td>Ebb-Silk-H-Silk-L-NV</td>
<td>J5</td>
<td>Ebb-Silk-H-Silk-L-NV</td>
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<td>Water Depth (FT)</td>
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<td>15.8</td>
<td>A7</td>
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<td>D.O. AIR CAL (% SAT)</td>
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<td>101.5</td>
<td>@15.58°C</td>
<td>104.0</td>
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<tr>
<td>Hydrolab Measmt (6.5)</td>
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<td>0.2M</td>
<td>0.2M</td>
<td>B-0.2M</td>
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<td>Salinity (PSU)</td>
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<td>34.65</td>
<td>34.67</td>
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<td>Temp (°C)</td>
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<td>7.84</td>
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<td>Spec Cond (mg/L)</td>
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<td>0315 N</td>
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<td>Secchi Depth (M)</td>
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<td>In Situ Light Measmt (Store 3) (µE/m/sec)</td>
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<td>UPPER @ &gt;0.2M</td>
<td>C7</td>
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<td>Beach BOAT BASIN / COMMERCIAL / DOCKS / ISLAND / MARINA / MANGROVE / OPEN BAY / SEA WALL / RESIDENTIAL</td>
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<tr>
<td>Bottom Type</td>
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<td>Mud Sand Grass NV</td>
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<td>MIEKEN DESCRIBE ANEME DEP FROM BUNDIAE, NO DEEPL CURRENT TOO STRONG</td>
<td>STEADY CURRENT</td>
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F:\CHEMLAB\FORMS\Log-sb-307.doc, Date: June 7, 2010

MML_Chemical Ecology_140401_1
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<th>TIME</th>
<th>EST</th>
<th>STA:</th>
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<th>TIME</th>
<th>EST</th>
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<td>1120</td>
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**FIELD CONDITIONS**

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<tr>
<th>CLOUD PERCENT</th>
<th>WIND DIR (from DegM)</th>
<th>WIND VELOCITY (MPH)</th>
<th>WAVE HEIGHT (FT)</th>
<th>RELATIVE TIDAL STAGE</th>
<th>WATER DEPTH (FT)</th>
<th>D.O. AIR CAL (% SAT)</th>
<th>HYDROLAB MEASMT (6.5)</th>
<th>SAI INITY (PSU)</th>
<th>TEMP (C)</th>
<th>pH (SU)</th>
<th>SPEC COND (MS/CM)</th>
<th>DO (mg/L)</th>
<th>% SAT DO</th>
<th># SAMPLE CONTN (A,B,D,H)</th>
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<th>DEPTH: CM MID METHOD: NISKIN</th>
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<td>50</td>
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<td>102.5 @ 23.55°C</td>
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<td>0.039</td>
<td>Cotton %Y/N</td>
<td>Cotton %Y/N</td>
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<td>25</td>
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<td>0.5</td>
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<td>50.87</td>
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<td>92.7</td>
<td>0.032</td>
<td>Cotton %Y/N</td>
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**IN SITU LIGHT MEASMT (STORE 3) (µE/M²/SEC)**

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<th>SHADE LIGHT</th>
<th>UPP @ 0.2M</th>
<th>LOWER</th>
<th>SKY LIGHT</th>
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<td>VS</td>
<td>187.3</td>
<td>685.0</td>
<td>VS</td>
<td>1209</td>
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**SHORELINE DESCRIPTION**

| VS | BEACH / BOAT BASIN / COMMERCIAL / DOCKS / ISLAND / MARINA / MANGROVE / OPEN BAY / SEA WALL / RESIDENTIAL (LOW / MEDIUM / DENSE) / RIP RAP / VEGETATION / |

**BOTTOM TYPE**

| MUD (SAND GRASS NV | MUD (SAND GRASS NV |

**DESCRIPTION OF STATION LOCATION**

| W, SIDE OF BAY | CENTER SARASOTA BAY |

**COMMENTS:**

| May Have St. Croix Hydro (2x) | Diesels (2014) US # USE US-2A |

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**Mote Marine Laboratory**, 1600 Ken Thompson Parkway, Sarasota, FL 34236 (941) 388-4441

**Physical/Chemical Characterization Field Sheet - SB Monitoring**

**Project # 112-307**

**Date:** 3/4/14  
**Samplers (Initials):** JJS, JJS, JS, AH

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<tr>
<td>DR</td>
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<td>MR</td>
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**Field Conditions**

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<th>CLOUD PERCENT</th>
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<th>WIND VELOCITY (MPH)</th>
<th>WAVE HEIGHT (FT)</th>
<th>RELATIVE TIDAL STAGE</th>
<th>WATER DEPTH (FT)</th>
<th>D.O. AIR CAL (% SAT)</th>
<th>HYDROLAB MEASMT (6.5')</th>
<th>SALINITY (ppt)</th>
<th>TEMP (C)</th>
<th>pH (SU)</th>
<th>SPEC COND (mg/l)</th>
<th>DO (mg/l)</th>
<th>% SAT DO</th>
<th>WQ SAMPLE CONTN (A,B,D,H)</th>
<th>SECCHI DEPTH (M)</th>
<th>IN SITU LIGHT MEASMT (STORE 3) (micromoles/m^2/second)</th>
<th>SHORELINE DESCRIPTION</th>
<th>BOTTOM TYPE</th>
<th>DESCRIPTION OF STATION LOCATION</th>
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<td>0</td>
<td>0</td>
<td>Fld, Ebb, Slik-H, Slik-L, NY</td>
<td>10.5</td>
<td>104.0 @ 23.23°C</td>
<td>0.2 M</td>
<td>33.41</td>
<td>21.91</td>
<td>7.90</td>
<td>50.70</td>
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<td>97.7</td>
<td>0.2 M</td>
<td>AH</td>
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<td>BEACH / BOAT BASIN / COMMERCIAL / DOCKS / ISLAND / MARINA / MANGROVE / OPEN BAY / SEA WALL / RESIDENTIAL (LOW / MEDIUM / DENSE) / RIP RAP / VEGETATION</td>
<td>0.3 M</td>
<td>MUD, SAND, GRASS</td>
<td>West side of bay U. of RING FAX</td>
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</tbody>
</table>
**Mote Marine Laboratory**, 1600 Ken Thompson Parkway, Sarasota, FL 34236 (941) 388-4441  
Physical/Chemical Characterization Field Sheet - SB Monitoring  
Project # 112-307

**Date:** 3/4/11  
**Samplers (Initials):** (JS) (JS) (GH) (AH)

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<td>LB</td>
<td>MR</td>
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**Field Conditions**

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<td>Wind Velocity (MPH)</td>
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<td>Wave Height (FT)</td>
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<td>Relative Tidal Stage</td>
<td>Fld Ebb Silk-H Silk-L</td>
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<td>Water Depth (FT)</td>
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<td>DO, Air Cal (% Sat)</td>
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<td>Salinity (PSU)</td>
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**WQ Sample Conttn (A,B,D,H)**

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**Secchi Depth (M)**

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<td>2.6 Up: 2.5 Mean: 2.5</td>
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**In Situ Light Measmnt (Store 3) (µE/M²/Sec)**

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<td></td>
<td>UP @ &gt; 0.2M 1058</td>
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**Shoreline Description**

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<tr>
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<td>Beach / Boat Basin / Commercial / Docks / Island / Marina / Mangrove / Open Bay / Sea Wall / Residential (Low / Medium / Dense) / Rip Rop / Vegetation</td>
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**Bottom Type**

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**Description of Station Location**

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**Comments:**

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<td>Ebb</td>
<td>Silk-H</td>
<td>Silk-L</td>
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<td>B-0.2M</td>
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<td>AH</td>
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<td>GRASS</td>
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### Physical/Chemical Characterization Field Sheet - SB Monitoring

**Project # 112-307**

**Date:**

**Samplers (Initials):**

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<th>WAVE HEIGHT (FT)</th>
<th>RELATIVE TIDAL STAGE</th>
<th>WATER DEPTH (FT)</th>
<th>D.O. AIR CAL (% SAT)</th>
<th>HYDROLAB MEASMT (0.5')</th>
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<th>pH (SU)</th>
<th>SPEC COND (MS/CM)</th>
<th>DO (mg/L)</th>
<th>% SAT DO</th>
<th>WQ SAMPLE CONTN (A,B,D,H)</th>
<th>SECCCHI DEPTH (M)</th>
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<tr>
<td>0.2M</td>
<td>0.2M</td>
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<td>0.2M</td>
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#### IN SITU LIGHT MEASMT (STORE 3) (µE/M²/SEC)

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<tr>
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#### BOTTOM TYPE

<table>
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<tr>
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<td>MUD / SAND / GRASS / NV</td>
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#### DESCRIPTION OF STATION LOCATION

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<td>WEST OF RED W岁 Marine Jack</td>
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#### COMMENTS:

F:\CHEMLAB\FORMS\Log-sb-307 .doc, Date: June 7, 2010
Mote Marine Laboratory, 1600 Ken Thompson Parkway, Sarasota, FL 34236 (941) 388-4441 Page 7 of 8

Physical/Chemical Characterization Field Sheet - SB Monitoring

Date: 03/04/14
Samplers (Initials) J.S, S.S. C.J, A.H (____), (____), (____) (____)

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FIELD CONDITIONS

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HYDROLAB MEASMT (G25)

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WQ SAMPLE CONTN (A,B,D,H)

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SECCHI DEPTH (M)

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IN SITU LIGHT MEASMT (STORE 3) (uE/M²/SEC)

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SHORELINE DESCRIPTION

BEACH / BOAT BASIN / COMMERCIAL / DOCKS / ISLAND / MARINA / MANGROVE / OPEN BAY / SEA WALL / RESIDENTIAL (LOW / MEDIUM / DENSE) / RIP RAP / VEGETATION /

BOTTOM TYPE

Mud, Sand, Grass, NV

DESCRIPTION OF STATION LOCATION

EAST OF CHNL.

COMMENTS:

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YES, FIRST READING, DECLINE

SL 3-14-14

25 of 41
### FIELD CONDITIONS

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F:\CHEMLAB\FORMS\Log-sb-307.doc, Date: June 7, 2010
### Field Work Log: Sarasota Bay Monitoring

**Date**: 03.04.14  
**Sampler's Name (Initials)**: Lori Zaworski, C. Kennedy, G. Byrd (FB)

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<td><strong>Serial #</strong></td>
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<td>DATUM: NAD83</td>
<td>SPHERE: GRS80</td>
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**General Field Conditions**: Some Sun, Cloudy, Calm, Light Breeze.

**Analyst**: Lori Zaworski (Pre), Lori Zaworski (Post)

<table>
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<tr>
<th>Limits</th>
<th>0.5 KCl</th>
<th>0.1 KCl</th>
<th>pH 7.00</th>
<th>pH 10.00</th>
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<tbody>
<tr>
<td></td>
<td>55.708-61.572</td>
<td>12.255-13.545</td>
<td>6.8-7.2</td>
<td>9.8-10.2</td>
<td>96-104</td>
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<tr>
<td></td>
<td>ms/cm*</td>
<td>ms/cm*</td>
<td>SU</td>
<td>SU</td>
<td>%</td>
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<tr>
<td>Lot #</td>
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<td>01.23.14</td>
<td>23.05821</td>
<td>230.3A14</td>
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<td>07.33.14</td>
<td>05.31.15</td>
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<tr>
<td>Value -Pre</td>
<td>58.82</td>
<td>12.87</td>
<td>7.06</td>
<td>10.07</td>
<td>99.7 @ 23.3°C</td>
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<td>0849</td>
<td>08.50</td>
<td>0851</td>
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<tr>
<td>Value (Post)</td>
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<td>12.82</td>
<td>7.03</td>
<td>9.99</td>
<td>98.9 @ 28.0°C</td>
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<tr>
<td>Time -Post (EST)</td>
<td>1525</td>
<td>1526</td>
<td>1526</td>
<td>1527</td>
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*: If Conductivity is off, repeat -DO NOT calibrate.

**: If pH / % Saturation of DO is off, calibrate.

**Record any changes to back up instruments in log comments!**

**Record station times from Hydrolab at first reading!**

---

# Physical/Chemical Characterization Field Sheet - SB Monitoring

**MOTE MARINE LABORATORY, 1600 Ken Thompson Parkway, Sarasota, FL 34236 (941) 388-4441**

**Date:** 03.04.14

---

### SEGMENT:

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<tr>
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<th>LAT</th>
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<th>STA</th>
<th>LAT</th>
<th>TIME</th>
<th>EST</th>
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### FIELD CONDITIONS

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<tr>
<th>CLOUD PERCENT</th>
<th>WIND DIR (from DegM)</th>
<th>WIND VELOCITY (MPH)</th>
<th>WAVE HEIGHT (FT)</th>
<th>RELATIVE TIDAL STAGE</th>
<th>WATER DEPTH (FT)</th>
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<tbody>
<tr>
<td>50</td>
<td>344</td>
<td>0.5</td>
<td>0.8</td>
<td>Fld Ebb Silk-H Silk-L NV</td>
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<table>
<thead>
<tr>
<th>D.O. AIR CAL (% SAT)</th>
<th>HYDROLAB MEASNT (0.5)</th>
<th>TEMP (°C)</th>
<th>PH (SU)</th>
<th>SPEC COND (MS/Cm)</th>
<th>DO (mg/L)</th>
<th>% SAT DO</th>
</tr>
</thead>
<tbody>
<tr>
<td>10.1 @ 23.04 °C</td>
<td>34.53</td>
<td>21.67</td>
<td>7.88</td>
<td>50.33</td>
<td>6.36</td>
<td>87.9</td>
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### WQ SAMPLE CONTN (A,B,D,H)

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<tr>
<th>GB</th>
<th>DEPTH</th>
<th>METHOD</th>
<th>NISKIN</th>
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<td>#0339</td>
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<td>Custody Y/N</td>
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### SECCHI DEPTH (M)

<table>
<thead>
<tr>
<th>Dn</th>
<th>Up</th>
<th>MEAN</th>
</tr>
</thead>
<tbody>
<tr>
<td>CK</td>
<td>7B</td>
<td>MEAN</td>
</tr>
</tbody>
</table>

### IN SITU LIGHT MEASMT (STORE 3) (µE/M²/Sec)

| LOWER | UPPER @ >0.2m | 885.7 |
|       |               | 112.9 |

---

### SHORELINE DESCRIPTION

- BEACH / BOAT BASIN / COMMERCIAL
- DOCKS / ISLAND / MARINA / MANGROVE
- OPEN BAY / SEA WALL / RESIDENTIAL
- LOW / MEDIUM / DENSE / RIP RAP

---

### BOTTOM TYPE

- MUD / SAND / GRASS

---

### DESCRIPTION OF STATION LOCATION

*had a problem w/ licor sensor connection bad on port 3. needed to switch to port 2 & do a new CAL*
**Mote Marine Laboratory**

**Physical/Chemical Characterization Field Sheet - SB Monitoring**

**Date:** 03.04.14

**Samplers (Initials):** 83, CK, GB

<table>
<thead>
<tr>
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<tbody>
<tr>
<td>DR</td>
<td>LB</td>
<td>MR</td>
<td>11-13-14</td>
<td></td>
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<td>16</td>
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**Field Conditions**

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<td>90</td>
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<td>WIND DIR (from Deg M)</td>
<td>90</td>
<td>90</td>
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<td>WIND VELOCITY (MPH)</td>
<td>0 5 10 15 20</td>
<td>0 5 10 15 20</td>
</tr>
<tr>
<td>WAVE HEIGHT (FT)</td>
<td>0 0.5 1 2 3</td>
<td>0 0.5 1 2 3</td>
</tr>
<tr>
<td>RELATIVE TIDAL STAGE</td>
<td>Fld Ebb Silk-H Silk-L (NV)</td>
<td>Fld Ebb Silk-H Silk-L (NV)</td>
</tr>
<tr>
<td>WATER DEPTH (FT)</td>
<td>4.5</td>
<td>3.4</td>
</tr>
<tr>
<td>D.O. AIR CAL (% SAT)</td>
<td>98.8 @ 23.39 °C</td>
<td>96.3 @ 23.21 °C</td>
</tr>
<tr>
<td>HYDROLAB MEASMT (0.5)</td>
<td>0.2M</td>
<td>1M/MID</td>
</tr>
<tr>
<td>SALINITY (PSU)</td>
<td>31.09</td>
<td>31.28</td>
</tr>
<tr>
<td>TEMP (°C)</td>
<td>22.50</td>
<td>22.14</td>
</tr>
<tr>
<td>PH (SU)</td>
<td>7.86</td>
<td>7.87</td>
</tr>
<tr>
<td>SPEC COND (MS/CM)</td>
<td>51.72</td>
<td>52.03</td>
</tr>
<tr>
<td>DO (MG/L)</td>
<td>6.30</td>
<td>6.46</td>
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<tr>
<td>% SAT DO</td>
<td>90.2</td>
<td>90.9</td>
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<tr>
<td>WQ SAMPLE CONTN (A,B,D,H)</td>
<td>CB</td>
<td>CB</td>
</tr>
<tr>
<td>DEPTH: 1M/MID</td>
<td>Method: Niskin</td>
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<tr>
<td>#</td>
<td>0321</td>
<td>Cotton Y N</td>
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<tr>
<td>SECCCI DEPTH (M)</td>
<td>CK</td>
<td>CK</td>
</tr>
<tr>
<td>Dn: 7B</td>
<td>Up: MEAN</td>
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<tr>
<td>IN SITU LIGHT MEASMT (STORE 3) (µE/M²/SEC)</td>
<td>CB</td>
<td>CB</td>
</tr>
<tr>
<td>UPPER @ &gt;0.2M</td>
<td>611.4</td>
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</tr>
<tr>
<td>LOWER</td>
<td>481.3</td>
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<tr>
<td>SHORELINE DESCRIPTION</td>
<td>CB</td>
<td>CB</td>
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<tr>
<td>BOTTOM TYPE</td>
<td>MUD / SAND / GRASS (NV)</td>
<td>MUD / SAND / GRASS (NV)</td>
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<tr>
<td>DESCRIPTION OF STATION LOCATION</td>
<td>W of Marker 19</td>
<td>N of Marker 21</td>
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**Comments:**

Stored hydrolab on 8/12/13 on previous stations, no 8/12/14.

Stored twice, first entry diluted 8/3/14.
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<th>STA:</th>
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<td>LON</td>
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<td>965</td>
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<td>LON</td>
<td>82.49</td>
<td>509</td>
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</table>

**FIELD CONDITIONS**

| CLOUD PERCENT | INT | 50 |          | INT | 40 |          |
| WIND DIR (from DegM) |     | 240 |          |     | 240 |          |
| WIND VELOCITY (MPH) |     |     |          |     |     |          |
| WAVE HEIGHT (FT) |     |     |          |     |     |          |
| RELATIVE TIDAL STAGE |     |     |          |     |     |          |
| WATER DEPTH |     |     |          |     |     |          |
| D.O. AIR CAL (% SAT) |     | 98.1 | @ 24.11 °C |     | 100.4 | @ 24.56 °C |
| HYDROLAB MEASMT (6.5) |     | 33.59 | 33.62 | 33.66 | 32.85 | 32.68 | 32.93 |
| SALINITY (pS/cm) |     | 22.93 | 22.79 | 22.72 | 22.92 | 22.83 | 22.82 |
| TEMP (°C) |     | 7.84 | 7.84 | 7.83 | 7.93 | 7.92 | 7.92 |
| PH |     | 51.07 | 51.69 | 51.14 | 50.05 | 50.08 | 50.15 |
| SPEC COND (µS/CM) |     | 6.25 | 6.06 | 6.06 | 7.00 | 7.09 | 7.06 |
| DO (mg/L) |     | 88.5 | 86.2 | 86.6 | 99.8 | 100.5 | 99.6 |
| % SAT DO |     |     |          |     |     |          |
| WQ SAMPLE CONTN (A,B,D,H) |     |     |          |     |     |          |
| SPACCI DEPTH (M) |     |     |          |     |     |          |
| IN SITU LIGHT MEASMT (STORE 3) (µE/M²/Sec) |     |     |          |     |     |          |
| BOTTOM TYPE |     | MUD / SAND / GRASS | MUD / SAND / GRASS |
| DESCRIPTION OF STATION LOCATION |     | S of Marker 29A | E of Marker 37 |
| COMMENTS: |     | 2nd set of Licor readings |
## MOTE MARINE LABORATORY, 1600 Ken Thompson Parkway, Sarasota, FL 34236 (941) 388-4441

Physical/Chemical Characterization Field Sheet - SB Monitoring

Project # 112-307

Date: 03.09.14

Samplers (Initials): GJ, CK, GB

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<td>CLOUD PERCENT</td>
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<tr>
<td>WIND DIR (from DegM)</td>
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<td>30</td>
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<td>WIND VELOCITY (MPH)</td>
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<td>220</td>
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<td>WAVE HEIGHT (FT)</td>
<td>0.5 1 2 3</td>
<td>0.5 1 2 3</td>
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<tr>
<td>RELATIVE TIDAL STAGE</td>
<td>Fld Ebb Silk-H Silk-L (NV)</td>
<td>Fld Ebb Silk-H Silk-L (NV)</td>
</tr>
<tr>
<td>WATER DEPTH (FT)</td>
<td>3.3</td>
<td>3.8</td>
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<tr>
<td>D.O. AIR CAL (% SAT)</td>
<td>98.5 @ 24.96 °C</td>
<td>100.5 @ 25.42 °C</td>
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<td>HYDROLAB MEASMT (6.5)</td>
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<td>1M/MID</td>
<td>1M/MID</td>
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<tr>
<td></td>
<td>B-0.2M</td>
<td>B-0.2M</td>
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<td>SALT INTITY (psu)</td>
<td>32.16 32.19 32.24</td>
<td>31.84 32.18 32.24</td>
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<tr>
<td>TEMP (°C)</td>
<td>23.70 23.96 23.34</td>
<td>23.70 23.36 23.24</td>
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<tr>
<td>PH (SU)</td>
<td>7.94 7.97 7.91</td>
<td>7.94 7.94 7.94</td>
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<tr>
<td>SPEC COND (MS/cm)</td>
<td>49.12 49.12 49.19</td>
<td>48.74 49.05 49.20</td>
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<tr>
<td>DO (mg/L)</td>
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<td>6.77 6.90 6.99</td>
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<td>% SAT DO</td>
<td>100.3 102.7 98.3</td>
<td>97.4 98.7 99.8</td>
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<table>
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<tr>
<th>SHORELINE DESCRIPTION</th>
<th>BEACH / BOAT BASIN / COMMERCIAL / DOCKS ISLAND MARINA MANGROVE OPEN BAY SEA WALL RESIDENTIAL LOW MEDIUM DENSE RIP RAP VEGETATION</th>
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<tr>
<th>BOTTOM TYPE</th>
<th>DESCRIPTION OF STATION LOCATION</th>
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</thead>
<tbody>
<tr>
<td>MUD SAND GRASS (NV)</td>
<td>E of Marker 40</td>
</tr>
<tr>
<td>MUD SAND GRASS (NV)</td>
<td>E of Midnight Pass</td>
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Comments:

F:\CHEMLAB\FORMS\Log-sb-307.doc, Date: June 7, 2010
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<th>TIME</th>
<th>LAT</th>
<th>TIME</th>
<th>LAT</th>
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<tbody>
<tr>
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<td>14</td>
<td>14</td>
<td>13.5</td>
<td>14</td>
<td>13.8</td>
<td>14</td>
</tr>
<tr>
<td>DR</td>
<td>LB</td>
<td>MR</td>
<td></td>
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<th>INT</th>
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<td>WIND DIR (from DegM)</td>
<td>240</td>
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<tr>
<td>WIND VELOCITY (MPH)</td>
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<td>10, 15, 20</td>
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<tr>
<td>WAVE HEIGHT (FT)</td>
<td>1, 2, 3</td>
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<tr>
<td>WATER DEPTH (FT)</td>
<td>5.8</td>
<td>6.5</td>
<td></td>
<td></td>
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<td>D.O. AIR CAL (% SAT)</td>
<td>98.7 @ 26.35 ºC</td>
<td>98.2 @ 23.95 ºC</td>
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<th>INT</th>
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<td>30.85, 30.91, 30.91</td>
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<td>TEMP (oC)</td>
<td>23.97, 23.48, 23.16</td>
<td>23.48, 22.99, 23.09</td>
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<td></td>
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<tr>
<td>pH (SU)</td>
<td>7.88, 7.84, 7.86</td>
<td>7.91, 7.93, 7.93</td>
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<td>47.33, 47.38, 47.40</td>
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<tr>
<td>DO (MG/L)</td>
<td>6.24, 5.91, 6.25</td>
<td>7.35, 7.70, 7.92</td>
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<td></td>
</tr>
<tr>
<td>% SAT DOT</td>
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<td>104.7, 109.0, 111.9</td>
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<table>
<thead>
<tr>
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<th>GB</th>
<th>DEPTH</th>
<th>MB</th>
<th>METHOD</th>
<th>NISKIN</th>
<th>GB</th>
<th>DEPTH</th>
<th>MB</th>
<th>METHOD</th>
<th>NISKIN</th>
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F\CHEMLAB\FORMS\Log-sb-307.doc, Date: June 7, 2010
MOTE MARINE LABORATORY, 1600 Ken Thompson Parkway, Sarasota, FL 34236 (941) 388-4441  Page 5 of 8  Project # 112-307

Physical/Chemical Characterization Field Sheet - SB Monitoring

Date 03.04.14
Samplers (Initials) CKB

<table>
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<th>SEGMENT</th>
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Yes. First reading deleted.
5/3-14/14
## MOTE MARINE LABORATORY, 1600 Ken Thompson Parkway, Sarasota, FL 34236 (941) 388-4441

**Physical/Chemical Characterization Field Sheet - SB Monitoring**

**Project # 112-307**

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<th>Fld</th>
<th>Ebb</th>
<th>Slk-H</th>
<th>Slk-L</th>
<th>NV</th>
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<th>UPPER @ &gt;0.2M</th>
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| COMMENTS: | |
|-----------||

F:\CHEMLAB\FORMS\Log-sb-307 .doc, Date: June 7, 2010
### Physical/Chemical Characterization Field Sheet - SB Monitoring

Date: **03.04.14**

**MOTe MARINE LABORATORY**, 1600 Ken Thompson Parkway, Sarasota, FL 34236 (941) 388-4441  
Page 5 of 8  
Project # 112-307

#### Field Conditions

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<tr>
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<tr>
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<td>Hydrolab Measmnt (0.5')</td>
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<td>Beach / Boat Basin / Commercial / Docks / Island / Marina / Mangrove / Open Bay / Sea Wall / Residential (Low / Medium / Dense) / Rip Rap / Vegetation</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Bottom Type</td>
<td>Mud Sand Grass NV</td>
<td></td>
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<tr>
<td>Description of Station Location</td>
<td>S of Bird Rockery</td>
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</table>

#### Comments:

F:\CHEMLAB\FORMS\Log-sb-307.doc, Date: June 7, 2010
FIELD WORK LOG: Sarasota Bay Monitoring

Date: 3-4-14

Samplers Name (Initials): S. Lauren (SL), J. Lulow (JC).

<table>
<thead>
<tr>
<th>Segments</th>
<th>US</th>
<th>10</th>
<th>11</th>
<th>13</th>
<th>14</th>
<th>16</th>
<th>DR</th>
<th>LB</th>
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Equipment Information

<table>
<thead>
<tr>
<th>Instrument</th>
<th>Model #</th>
<th>Serial #</th>
<th>Licor Analyst</th>
<th>Cal time (EST)</th>
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<tbody>
<tr>
<td>Hydrolab Surveyor</td>
<td>4/1 4a</td>
<td>0969</td>
<td>S. Lauren</td>
<td>1000</td>
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<tr>
<td>Hydrolab MiniSonde</td>
<td>4/4a/5</td>
<td>33889</td>
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<tr>
<td>Licor Data Logger</td>
<td>LI-1000 / LI-1400</td>
<td>4400</td>
<td>Water Multi</td>
<td>Cal Readings</td>
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<td>6566</td>
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<tr>
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<td>LI-192SA</td>
<td>6567</td>
<td>-291.39</td>
<td>1851 BT</td>
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<td>GPS</td>
<td>GPS72</td>
<td>G727211</td>
<td>DATUM: NAD83</td>
<td>SPHERE: GRS80</td>
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General Field Conditions:
Partly cloudy, warm, calm, winds.

Analyst: S. Lauren (Pre), S. Lauren (Post)

<table>
<thead>
<tr>
<th></th>
<th>0.5 KCl</th>
<th>0.1 KCl</th>
<th>pH 7.00</th>
<th>pH 10.00</th>
<th>% Sat DO</th>
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<tr>
<td>Limits</td>
<td>55.708-61.572 ms/cm*</td>
<td>12.255-13.545 ms/cm*</td>
<td>6.8-7.2 SU</td>
<td>9.8-10.2 SU</td>
<td>96-104</td>
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<td>1-23-14#1</td>
<td>2305321</td>
<td>2303A14</td>
<td>3-3-14</td>
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<td>7-23-14</td>
<td>5-31-15</td>
<td>9-30-14</td>
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<td>Value -Pre</td>
<td>68.68</td>
<td>13.00</td>
<td>7.02</td>
<td>10.01</td>
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<td>0954</td>
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<tr>
<td>Value (Post)</td>
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<td>12.85</td>
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*: If Conductivity is off, repeat -DO NOT calibrate.
\*: If pH / % Saturation of DO is off, calibrate.

RECORD ANY CHANGES TO BACK UP INSTRUMENTS IN LOG COMMENTS!
RECORD STATION TIMES FROM HYDROLAB AT FIRST READING!

### Field Conditions

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<tr>
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<th>IM</th>
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<td></td>
<td>SL</td>
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<tr>
<td>Wind Velocity (MPH)</td>
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<td>0 5 10 15 20</td>
<td></td>
<td></td>
<td>0 5 10 15 20</td>
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<tr>
<td>Wave Height (FT)</td>
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<td>0.5 1 2 3</td>
<td></td>
<td></td>
<td>0.5 1 2 3</td>
<td></td>
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<tr>
<td>Relative Tidal Stage</td>
<td></td>
<td>Fld Ebb Silk-H Silk-L</td>
<td></td>
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<td>Fld Ebb Silk-H Silk-L</td>
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<td>D.O. Air Cal (% Sat)</td>
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<td>102.1 @ 25.0 °C</td>
<td></td>
<td></td>
<td>99.2 @ 25.8 °C</td>
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<td>0.2M 1M/MD B-0.2M</td>
<td></td>
<td></td>
<td>0.2M 1M/MD B-0.2M</td>
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<tr>
<td>SAI INITY (PSU)</td>
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<td>32.80 32.82 32.90</td>
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<td></td>
<td>31.08 31.13 31.13</td>
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<tr>
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<td></td>
<td>23.03 23.00 22.96</td>
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<td>7.83 7.84 7.83</td>
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<td>47.64 47.67 47.69</td>
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<tr>
<td>DO (mg/L)</td>
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<td>5.73 5.60 5.57</td>
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<tr>
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<td>87.4 82.3 90.5</td>
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<td></td>
<td>81.0 79.3 78.5</td>
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<td>WQ Sample Contin (A,B,D,H)</td>
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<td>Gal 0.345/0.342</td>
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<td>Gal 0.351</td>
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<td></td>
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<td>In Situ Light Measmt (Store 3)</td>
<td></td>
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<td></td>
<td>Upper @ ≥0.2M 743.3</td>
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<td>Beach / Boat Basin / Commercial / Rock / Island / Marina / Mangrove / Open Bay / Sea Wall / Residential (Low / Medium / Dense) / Rip Rap / Vegetation</td>
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<tr>
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<td>Mud / Sand / Grass</td>
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<td></td>
<td>Mud / Sand / Grass</td>
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</tr>
<tr>
<td>Description of Station Location</td>
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<td>W Side of Bay</td>
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<td>W Side of Bay</td>
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## Comments:

F:\CHEMLAB\FORMS\Log-sb-307.doc, Date: June 7, 2010
### Field Conditions

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<tr>
<td></td>
<td>210</td>
<td></td>
<td>150</td>
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<tr>
<td>Wind Dir (from DegM)</td>
<td>0 10 15 20</td>
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<td>0 10 15 20</td>
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<tr>
<td>Wind Velocity (MPH)</td>
<td>0.5 1 2 3</td>
<td></td>
<td>0.5 1 2 3</td>
<td></td>
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</tr>
<tr>
<td>Wave Height (FT)</td>
<td>6</td>
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<td>7.9</td>
<td></td>
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<tr>
<td>Water Depth (FT)</td>
<td></td>
<td></td>
<td>48.8 @ 25.33 °C</td>
<td></td>
<td>49.0 @ 26.11 °C</td>
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### Hydrolab Measurements (6.5)

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<th>0.2M</th>
<th>1M / MID</th>
<th>B-0.2M</th>
<th>0.2M</th>
<th>1M / MID</th>
<th>B-0.2M</th>
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<tbody>
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<td>31.10</td>
<td>30.45</td>
<td>29.94</td>
<td>30.10</td>
</tr>
<tr>
<td>Temp (°C)</td>
<td>23.57</td>
<td>23.23</td>
<td>22.94</td>
<td>23.43</td>
<td>23.37</td>
<td>23.13</td>
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<td>PH (SU)</td>
<td>7.84</td>
<td>7.86</td>
<td>7.86</td>
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<td>46.76</td>
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<td>% Sat DO</td>
<td>90.5</td>
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### WQ Sample Collection (A,B,D,H)

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<th></th>
<th>JC</th>
<th>Cust</th>
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<th>Cust</th>
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<tbody>
<tr>
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<td>0.34</td>
<td></td>
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<tr>
<td>Method: Niskin</td>
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### SFCCHI Depth (M)

<table>
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<th>JC</th>
<th>Cust</th>
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<th>Cust</th>
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<td>Dn: 1.60 Up: 1.50</td>
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### In Situ Light Measurements (STORE 3) (μE/m²/sec)

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<th>SL</th>
<th>IM</th>
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<th>SL</th>
<th>IM</th>
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<tbody>
<tr>
<td>Upper @ ≥ 0.2m</td>
<td>578.3</td>
<td></td>
<td>450.8</td>
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<tr>
<td>Lower</td>
<td>292</td>
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</tbody>
</table>

### Shoreline Description

- Beach / Boat Basin / Commercial / Docks / Island / Marina / Mangrove / Open Bay / Sea Wall / Residential (Low / Medium / Dense) / Rip Rap / Vegetation

### Bottom Type

- Mud / Sand / Grass [NV]

### Description of Station Location

- Wedge of Channel by 25mph sign

### Comments:

- Sun went behind clouds during Licor readings

---

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### Field Conditions

<table>
<thead>
<tr>
<th>Field</th>
<th>Initials</th>
<th>Value</th>
<th>Notes</th>
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<tbody>
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<td>Cloud Percent</td>
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<tr>
<td>Wind Dir (from DegM)</td>
<td>SL</td>
<td>210</td>
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<tr>
<td>Wind Velocity (MPH)</td>
<td>SL</td>
<td>0.5</td>
<td>123</td>
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<tr>
<td>Relative Tidal Stage</td>
<td>SL</td>
<td>Fld Ebb Sil-H Sil-L NV</td>
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</tr>
<tr>
<td>Water Depth (FT)</td>
<td>SL</td>
<td>98.9</td>
<td>26.4 °C</td>
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<tr>
<td>D.O. Air Cal (% Sat)</td>
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<td>98.0</td>
<td>27.30 °C</td>
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### Hydrolab Measurements

<table>
<thead>
<tr>
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<th>IM / MID</th>
<th>Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.2M</td>
<td>0.5M</td>
<td>2.0M</td>
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### Secchi Depth

<table>
<thead>
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### In Situ Light Measurements

<table>
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### Shoreline Description

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### Bottom Type

<table>
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<td>Mud Sand Grass</td>
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### Comments

- Not marker 49
- Not Circus Bridge
Date: 3-4-14

### Field Conditions

<table>
<thead>
<tr>
<th>Parameter</th>
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<td>Cloud Percent</td>
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<td>SL 20</td>
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<td>Wind Dir (from DegM)</td>
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</tr>
<tr>
<td>Wind Velocity (MPH)</td>
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<td>0 10 15 20</td>
<td>0 10 15 20</td>
</tr>
<tr>
<td>Wave Height (FT)</td>
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<td>0 0.5 1 2 3</td>
<td>0 0.5 1 2 3</td>
</tr>
<tr>
<td>Relative Tidal Stage</td>
<td></td>
<td>Ebb Silk-H Silk-L NV</td>
<td>Ebb Silk-H Silk-L NV</td>
</tr>
<tr>
<td>Water Depth (FT)</td>
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<td>10.0</td>
<td>4.2</td>
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<td>D.O. Air Cal (% Sat)</td>
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<td>SL 97.8 @ 26.76 °C</td>
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### Hydrolab Measurements (6.5)

<table>
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<th>Value 2</th>
<th>Value 3</th>
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<td>7.96</td>
<td>7.98</td>
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### Secchi Depth (M)

<table>
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<th>Value 2</th>
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<td>Dn: 7 B Up: Mean: 7 B</td>
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<td></td>
<td>JC</td>
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### Shoreline Description

- Beach / Boat Basin / Commercial / Docks / Island / Marina / Mangrove / Open Bay / Sea Wall / Residential (Low / Medium / Dense / Rip Rap / Vegetation /)
- N Side of inlet

### Bottom Type

- Mud / Sand / Grass

### Comments

F:\CHEMLAB\FORMS\Log-sb-307.doc, Date: June 7, 2010
Date 3-4-14
Samplers (Initials) (SL). (JC).

<table>
<thead>
<tr>
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<th>US</th>
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<th>FIELD CONDITIONS</th>
<th>INT</th>
<th>SL</th>
<th>INT</th>
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<tbody>
<tr>
<td>CLOUD PERCENT</td>
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<td>20</td>
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<tr>
<td>WIND DIR (degm)</td>
<td></td>
<td>210</td>
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<tr>
<td>WIND VELOCITY</td>
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<td>0</td>
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</tr>
<tr>
<td>WAVE HEIGHT</td>
<td></td>
<td>0.5</td>
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</tr>
<tr>
<td>RELATIVE TIDAL STAGE</td>
<td>FLd</td>
<td>Ebb</td>
<td>Slk-H</td>
</tr>
<tr>
<td>WATER DEPTH (FT)</td>
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<td>9.4</td>
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<tr>
<td>D.O. AIR CAL (% SAT)</td>
<td></td>
<td>@26.72 °C</td>
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<tr>
<td>hydrogen lab meas &amp; (6.5)</td>
<td>0.2M</td>
<td>34.81</td>
<td>34.81</td>
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<tr>
<td>salinity (psu)</td>
<td>8.03</td>
<td>8.02</td>
<td>8.02</td>
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<tr>
<td>temp (°C)</td>
<td>21.45</td>
<td>21.46</td>
<td>21.50</td>
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<td>f # SPEC COND (MU/CM²)</td>
<td>52.70</td>
<td>52.66</td>
<td>52.69</td>
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<tr>
<td>DO (MG/L)</td>
<td>7.03</td>
<td>6.86</td>
<td>6.92</td>
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<tr>
<td>% SAT DO</td>
<td>98.3</td>
<td>95.7</td>
<td>95.6</td>
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<tr>
<td>WQ SAMPLE CONTN (A,B,D,H)</td>
<td>JC</td>
<td>DEPTH:</td>
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<tr>
<td>IN SITU LIGHT MEASMENT</td>
<td>SL</td>
<td>STORE 3</td>
<td>UPPER @ &gt;0.2M</td>
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<tr>
<td>SHORELINE DESCRIPTION</td>
<td>SL</td>
<td>BEACH / BOAT BASIN / COMMERCIAL / Docks / Island / Marina / Mangrove / Open Bay / Sea Wall / Residential (Low / Medium / Dense) / Rip Rap / Vegetation</td>
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<tr>
<td>BOTTOM TYPE</td>
<td>SL</td>
<td>MUD</td>
<td>SAND</td>
</tr>
<tr>
<td>DESCRIPTION OF STATION LOCATION</td>
<td>SL</td>
<td>MUD</td>
<td>SAND</td>
</tr>
<tr>
<td>COMMENTS:</td>
<td>SL</td>
<td>water is very clear</td>
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F:\CHEMLAB\FORMS\log-sb-307.doc, Date: June 7, 2010